

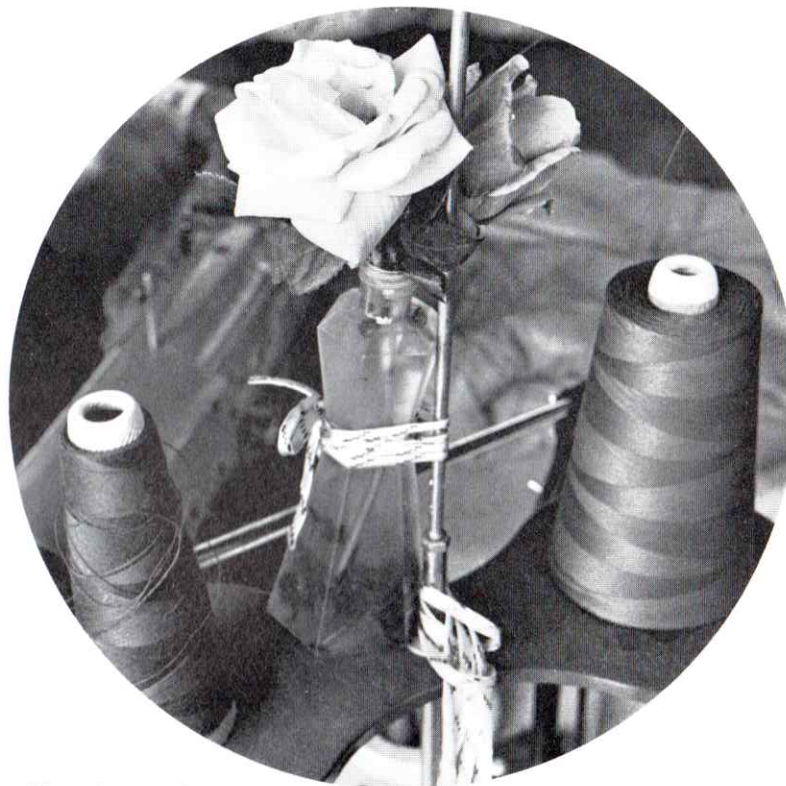
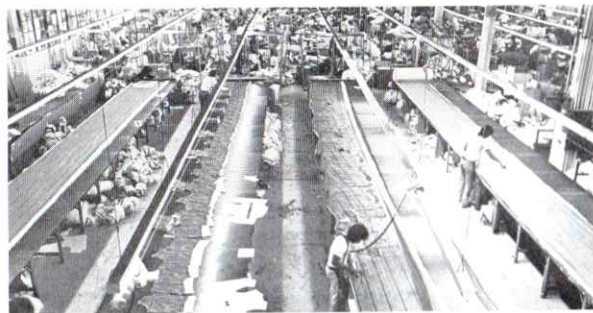
*Snow '76
Lion*





After four exciting years, marked by constant growth and transformation, Snow Lion has achieved an unprecedented position of leadership in the mountaineering industry. Snow Lion products clearly represent the highest level of functional efficiency in the manufacture of cold weather/high altitude sleeping bags, garments, and tents. As an innovator of sophisticated design concepts and in the development of advanced labor intensive sewing techniques and quality control procedures, Snow Lion is without peer. This has been demonstrated graphically by the countless expeditions which have successfully tested Snow Lion products under the most arduous life and death conditions. In addition, the superiority of Snow Lion down and Polarguard products has been demonstrated by an endless outpouring of favorable comments from thousands of backpackers and mountaineers who have taken the time to relate their favorable experiences to us. Snow Lion's departure from time-worn conventional construction methods coupled with startling breakthroughs in protective systems for insulated products have created this widespread critical and consumer acclaim and have given Snow Lion an enviable reputation in the mountaineering community.

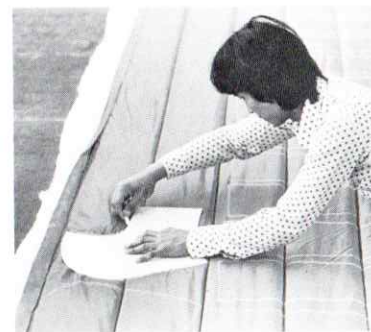
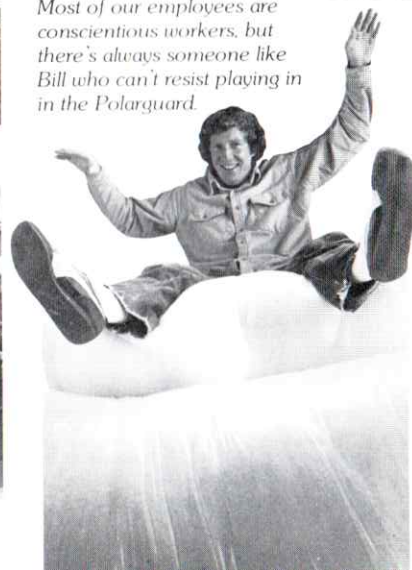
Snow Lion's success is rooted in its willingness to listen to innovative suggestions, constructive criticisms and new concepts. Unlike nearly all of our competitors, whose origins are traceable to older, more established manufacturers and whose fundamentals were and are naturally entwined with those of their previous employers. Snow Lion was formed by an independent group of mountaineers with no commitments or allegiances to conventional design or construction methods. Snow Lion was born in an effort to counteract the industry-wide complacency and indifference with a creative and open minded assault on existing beliefs. The astonishing number of conceptual advances put into marketable form by Snow Lion are the direct result of a unique, expansive and participative approach to design in which new features are the result of input from literally thousands of sources, including Snow Lion retail dealers, professional mountaineers, individual backpackers and climbers, as well as Snow Lion factory and product testing staff. The enthusiasm, energy and concern generated by so many interested people from so many diverse pursuits and backgrounds have created the novel and far-reaching technical superiority of Snow Lion products. It is to these people and the inspiration which they embody, that we dedicate this catalog.



Snow Lion is a "people" effort, although the disagreeable-looking quilting machines sometimes make us and Veejay (below) wonder about that.



Most of our employees are conscientious workers, but there's always someone like Bill who can't resist playing in in the Polarguard.



Time-consuming procedures such as the single-layer cutting of Polarguard patterns, as Bok Soo demonstrates, enable us to turn out consistently superior products.



We've been asked why we built a special isolated mezzanine for our downfillers. Paul's choice of headwear should give you some idea.

Anita, one of our skilled sewing machine operators, demonstrates a bar tucking technique used in our products.

Down Sleeping Bags



Down: Still in Controversy

QUALITY CONTROL

Our rapid growth has made us one of the world's major down consumers. For that reason, last year we supervised the construction of a sophisticated down processing facility to produce high quality down for our exclusive use. 100% of the down processed in our new plant is filled into Snow Lion products. Thus, Snow Lion is the only manufacturer in the industry to supervise and control the actual processing of down used in its bags and garments. Other manufacturers must rely on middlemen and independent processors. By processing the down ourselves, we have a distinct advantage in having control over the quality of down put into bags and garments. For use in the ULTRA-LIGHT, WONDER BAG, NORTHSTAR and all down garments, our quality standard is 550 cu. in. per ounce, based on the U.S. Bureau of Standards Filling Power Device. For use in the LIMITED EDITION series, the quality standard is 650-725 cu. in. per ounce. Our products are filled with goose down, duck down, and, occasionally, a blend of the two. We invite comparison.

BEFUDDLED AND BEWILDERED

Down is the most effective insulator applied to the construction of sleeping bags and garments in which weight, compressibility, and resiliency are the major considerations. Its virtues are universally known and accepted by mountaineers and wilderness travelers everywhere. However, confounding this general agreement is a bewildering and senseless controversy regarding the standards of quality. Each manufacturer claims that its specially selected "superdown" exceeds all others. Not surprisingly, the result has been such a preponderance of confusing and contradictory statements attesting to the alleged advantages of certain downs over others, that the general public is befuddled and uncertain as to the real properties of down and the extent to which they vary. Why so much discussion about down? The reasons are threefold. First, as the source of insulation and warmth, each manufacturer is anxious to explain why its source is the warmest. Second, because there really are significant quality variations within the range of legally acceptable down, it is necessary to offer some definition of filling power in the description of products. Third, and perhaps the major reason that so much attention and catalog space

are devoted to down is the simple fact that it is hidden beneath the intricate and opaque amalgam of nylon, zippers, and thread, et al. It is this unseen state which makes it a subject of contention.

It is our intention to acquaint you with the *realities* of down as it is used in the mountaineering industry in the United States by clarifying the most misunderstood facts. Why believe us? As a relatively new company, we aren't faced with the problem of defending long standing industry-wide myths and outdated beliefs about down. For example, although widely known among down processors, regulatory agencies, and manufacturers, it has only recently become widespread public knowledge that goose and duck down are of equal quality when maturity and filling capacity are the same. If, over the years, a given manufacturer had easy access to high quality goose down and subsequently built it into its advertising and promotional program, it is easy to understand this manufacturer's reluctance to publicly acknowledge the equality of duck down. A manufacturer in this predicament may even refuse duck down of incredible quality in order to sustain the contentions of previous advertising. Thus, this manufacturer's *published* views on materials such as down may be shaded by a commercial obligation to perpetuate outdated beliefs. On the other hand, Snow Lion, as a young company without commitments to the past, is able to take an objective approach to the selection of down, with *quality*, not advertising as the primary consideration. It is our freedom to do this that underscores the credibility of the following statements.

LEGAL COMPOSITION

The total fill of all sleeping bags labelled "down," "duck down," or "goose down" in California, the state with the most stringent bedding regulations, must contain a minimum of 60% pure down plumes and plumules, up to 20% pure down fiber, and 20% which may include additional quantities of pure down plumes and plumules, feathers, feather fiber, and small percentages of broken feathers, feathers from non-waterfowl stock, quill pith, epidermal flakes and other residue.

TOTAL FILL QUALITY

When the end product desired is a lightweight article, quality is based on the ratio of filling power to weight. As a general rule, it is the pure down and down

fiber which create loft and insulation. Although feathers are poor insulators compared to down, they do provide springiness and resilience. Products with a high percent of feathers need proportionately more pure down by weight to achieve the same insulation as low feather content products. Thus, quality for the weight-conscious backpacking/mountaineering industry means low feather content, just as quality for the "long use" or "not as worried about weight" market, such as the military, means high feather content.

PLACE OF ORIGIN

The vast majority of raw feathers and down used in sleeping bags and garments originates in Asia and Europe. However, attempts by manufacturers to pinpoint the true origin of processed down beyond the U.S. processor from whom the finished product was purchased is as difficult to prove as it is meaningless. For example, a large percentage of down brokered through West Germany is of Asian origin. Is this down European?

CLASSIFICATION

Down categories such as AA, AAA, Prime, Northern, European, and Garment Grade are promotional trade names and are not recognized by state and federal agencies governing the legal classification, registration and certification of down in sleeping bags.

COLLECTION AND PROCESSING

Down used in sleeping bags and parkas is the incidental by-product of ducks and geese raised commercially and harvested for meat. Feathers and down are removed after the bird has been slaughtered and, together with dirt, scrappings, epidermal residue and other trash, are collected and baled by brokerage merchants. This mixture, including the raw feathers and down, is then sold to processors who pay by percentage of down per bale; down content may vary from 10% to 25%. Highly specialized equipment is used to separate the down from the extraneous material. Because it is economically impractical to isolate 100% pure down, the result is a mixture of feathers, down, fiber, etc., which must conform to the minimum "Legal Composition" outlined above. From there, the stock is washed and sterilized (some processors wash and sterilize before separation). The finished product is ready for sale to manufacturers.

The Two Zipper System

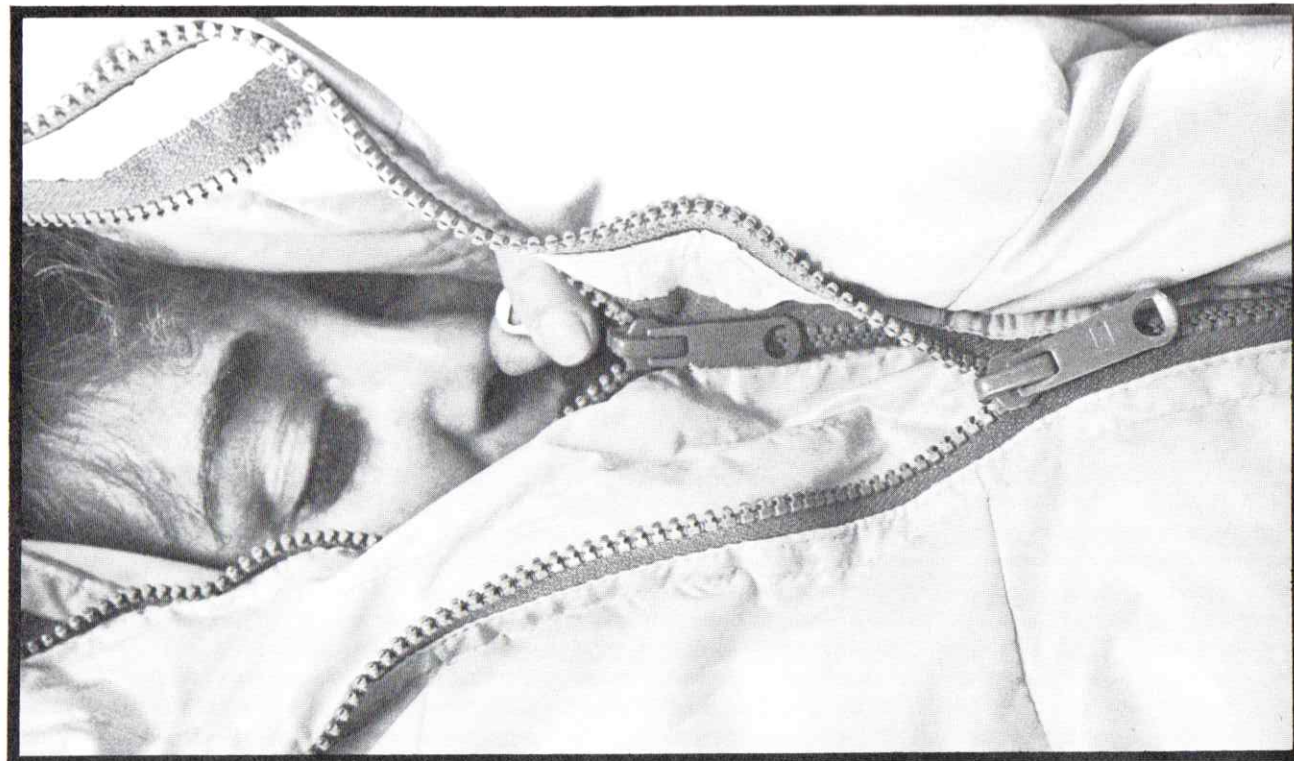
When mummy bags were first made and used by European mountaineers, the idea was to build a form-fitting, thermally efficient product with insulation evenly distributed around the body for use in very cold conditions. The thought of sewing in a zipper was out of the question. Not only would a zipper weaken the insulation barrier by creating a cold spot, but it would also complicate the bag and endanger performance through possible failure to operate. Therefore, the first mummies were not encumbered by such frivolities as zippers. The hardy mountaineer simply slithered into the bag and was assured of reasonably uniform insulation. However, as more and more people with a wider range of uses for sleeping bags entered the backpacking/mountaineering scene, the versatility of zippers for ventilation, for easier access, and for joining single bags together made the zipperless bag obsolete. With zippers as standard features, the great problem then became the design of an effective method of protecting the zipper from the ever-present discomfort of draft. The various downfilled draft flaps, tubes, and bag extensions currently used by all manufacturers of down bags simply do not prevent heat loss or cold air entry through the zipper.

DRAFT PROTECTION

The only method in existence that solves this problem and completely eliminates draft is the Snow Lion patented *Two Zipper System*—an inner zipper located behind the outer zipper which locks a down-filled section between the outer zipper and the person inside. Under mild conditions the outer zipper is used by itself and the inner zipper is left open and out of the way. The inner zipper is activated under colder conditions. Developed in 1972 for use on our EXPEDITION bag, the performance data was so dramatic and the response so overwhelming that we began offering it on the ULTRALIGHT and NORTHSTAR in late 1973.

ZIP TOGETHER PROTECTION

Under the older, conventional draft flap arrange-



ment, a direct cold spot occurs from above and between the bags when two are paired side by side. The Snow Lion *Two Zipper System* eliminates this problem for the first time ever by the pairing of the inner zippers of both bags, in which the down-filled section is sealed over the outer zipper. In addition, the usually vulnerable hole at the foot of each zipper is closed off by Velcro® tabs which are matched for right and left zippered bags.

INCREASED THERMAL EFFICIENCY

The inner zipper is usually left open under moderate conditions. However, when the inner zipper is used, it increases the differential cut by 5" and substantially decreases the amount of interior air space to be heated. Obviously this makes the bag considerably warmer.

BACK UP FOR EMERGENCIES

Although modern zippers rarely fail, statistics and lifetime guarantees don't mean much when breakage occurs in a survival situation. Our inner zipper may serve as a back up when your life depends on it.

VISLON ZIPPERS

The #5 Vislon zipper is used exclusively on Snow Lion bags. We find this zipper to be smoother and easier to operate than larger tooth zippers. We consider the injection molded Vislon tooth style zippers to be more durable than the various coil zippers currently on the market. In this regard, we guarantee it for the life of the sleeping bag.

Baffle and Construction Systems

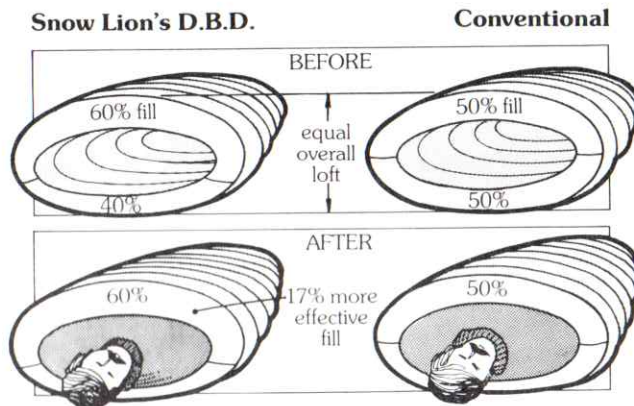
The intricate, unseen network of interior walls, cut in precise patterns, angling off in specific directions to join other walls at pre-defined points, comprises the underrated, yet most vital component of a quality down sleeping bag. For it is the sophistication, efficiency and durability of the *Baffling System* rather than such components as nylon, zippers and down that ultimately determines the performance capabilities of the sleeping bag. The combination of our innovative design process and our advanced manufacturing techniques, which allows us to spend nearly twice as much time in bag construction as other manufacturers, has made the *Snow Lion Baffling System* the most complex and effective ever designed and put into regular production.

MULTI-DIRECTIONAL FABRIC

Our specially selected baffling is a "multi directional," high strength, polyester knit with multi-stretch properties which accept and release stress and return to the original dimensions without distortion over time. This resilience makes it ideal for use in sleeping bags subject to long, hard use and repeated washings.

DIFFERENTIAL BAFFLE DEPTH (DBD)

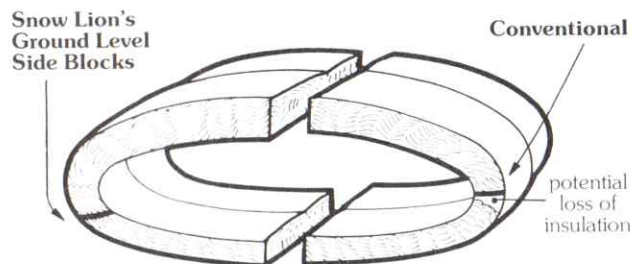
In conventionally constructed down sleeping bags, the manufacturer purchases baffling material in a pre-cut roll of single thickness (six inches is typical), which is sewn top and bottom at given intervals. Because the top and bottom nylon shells are the same dimensions in these bags, the cubic volume in corresponding top and bottom compartments is equal: 50% of the insulation on top and 50% on the bottom. In contrast, Snow Lion has developed a completely unique and far more effective system—*Differential Baffle Depth*. DBD is the logical and deliberate concentration of down insulation and baffle volume over the body where it is needed most. Because down compresses under body weight, it becomes almost non-functional in the bottom compartments. Approximately 60% of the loft and insulation in ULTRALIGHTS, NORTHSTARS, and LIMITED EDITIONS is on top. To demonstrate the obvious



advantage of DBD over the conventional 50/50 distribution, zip yourself into a Snow Lion mummy and into another bag with similar overall loft. As the "before and after" figures clearly indicate, the Snow Lion bag has more insulation left after the down underneath has compressed. Although construction of "deeper" top baffles and precise "differential" filling of top and bottom compartments requires considerably more labor than conventional construction, the added loft and warmth it creates make the finished product well worth the effort.

GROUND LEVEL SIDE BLOCKS

To increase the total effectiveness of *Differential Baffle Depth*, we have extended the upper portion of the bag so that the zipper and side block baffle are



almost at ground level. While other manufacturers locate the side block half-way between top and bottom for reasons of construction and filling expediency, *Ground Level Side Block* cannot form the cold spots caused when the down underneath the side block shifts away from the baffle wall as it does in conventional construction. It insures failsafe insulation.

BODY CONTOUR BAFFLING

Gravity forces the top of the bag to press lightly against the chest and along the length of the person inside. Normally the result is slightly less insulation along the pressure points over the body. However, we have designed specially contoured baffles in which the deepest and loftiest point is over the body at the pressure points. To achieve this "contour," each horizontal baffle along the length of the bag must be individually shaped, cut, and sewn. Because the girth varies on every bag, a separate set of baffle patterns must be made for each. The greater insulation and warmth provided by our *Body Contour Baffling* are obvious to anyone who has thought of building a down bag. This Snow Lion exclusive feature is possible because we are able to spend more time constructing our bags than our competition. Its production represents the first major breakthrough in the area of baffle design in years.

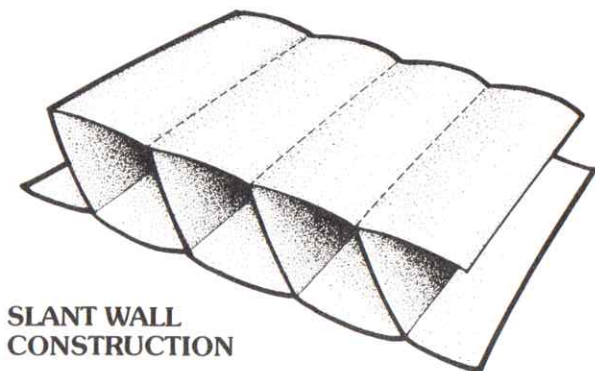
DIFFERENTIAL CUT

The *Differential Cut* is a construction method in which the inner shell of the sleeping bag is shorter in circumference than the outer shell, thereby preventing the baffled insulation barrier from easily collapsing when pressure is applied from the inside by elbows, knees, etc. The less expensive alternative is "shell parity" construction in which the inner shell is cut from the same pattern as, and is equal in circumference to, the other shell. All Snow Lion down bags are *Differentially Cut*.



FOUR PATTERN SHELL CONSTRUCTION

Due to the *Differential Cut*, quality bags require two shell patterns, one for the inner circumference and one for the outer. Snow Lion bags, however, require four separate patterns for each bag. Because the top shell has a larger circumference, described above under *Differential Baffle Depth* and *Ground Level Side Block*, the top and bottom as well as the inner and outer shells are from different patterns. In addition to twice as many patterns, each Snow Lion shell pattern is cut from one linear piece of material. This is considerably stronger than the "pieced" or "joined" patterns used by many manufacturers who cut against the linear grain to save material. These two-piece patterns are usually identified by tuck stitch lines, or "false baffles" where the pieces are joined and which may appear randomly outside or inside top stitched bags.

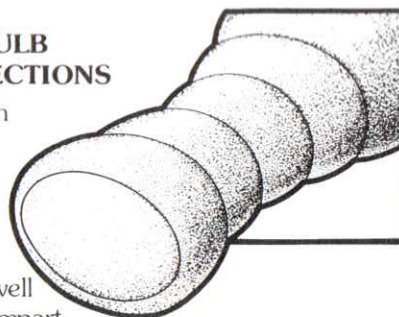


**SLANT WALL
CONSTRUCTION**

In *Slant Wall Construction*, used in all Snow Lion down bags, the contoured baffle is slanted exactly one half width of the baffle compartment, resulting in seams offset 2½". This technique allows maximum "free loft," and is particularly effective when arranged in our narrow, 5" baffle compartments.

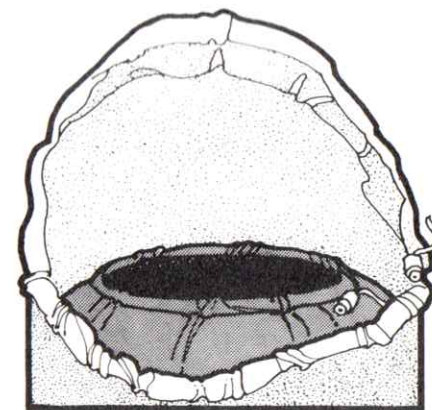
TULIP BULB FOOT SECTIONS

All Snow Lion down mummy bags feature grossly enlarged foot sections to provide more room for wandering feet as well as warm storage compartments for clothing and/or boots in sub-zero temperatures. The inner and outer foot shells are *Differentially Cut*, making it difficult to force the inner shell against the outer. To insure uniform insulation in such a "bulbous" area, a horizontal baffle separates the down-filled top and bottom of the foot section. Though the *Tulip Bulb* creates an unusual appearance, it adds a new dimension of safety and comfort to cold weather sleeping bags.



OPTIONAL COLLAR

A detachable down-filled collar is offered as an option on both the NORTHSTAR and LIMITED EDITION STANDARD bags. Softside Velcro® strips and recessed snaps are carefully and permanently installed at the curve of the neck to accommodate the collar when desired. Use of the collar greatly reduces interior air circulation by sealing off draft entry into the main body of the bag. It also makes the bag considerably warmer by preventing heat escape. Further, with the collar attached, it is not necessary to draw the hood around the head in most situations. Comfort is controlled via a drawcord and cordlock on the side opposite the zipper. The zipper side of the collar can be opened or closed quickly by a Velcro® strip and two snaps. Because all NORTHSTARS and LIMITED STANDARDS are equipped with Velcro® strips and snaps,



the buyer of either of these bags has the option of purchasing the collar anytime. (Note: the LIMITED EDITION EXPEDITION is manufactured with a non-detachable collar permanently sewn in as a standard feature.)

STITCHING

The sewing craftsmanship of Snow Lion bags has set unmatched quality standards in the sleeping bag industry over the past few years. Baffle seams are always precisely aligned and sewn at *Twelve Stitches Per Inch* with high strength nylon and polyester/cotton threads. All zippers are neatly double stitched and the polyester fabric stiffener, which reduces zipper snag, is double stitched in all cases. Stress points are reinforced with double stitches, bar tacks, and/or overlock stitches. The baffle seams are *Tuck Stitched*, a method in which the thread is tucked, unexposed beneath all surfaces of the bag. This reduces the snagging common to top-stitched bags and thereby increases the longevity of the product. *Tuck Stitching* and the overall superiority of Snow Lion stitching are structural advantages resulting from our "more time spent sewing" manufacturing process.

Ultralight

The unique bottle shaped ULTRALIGHT is our most popular bag. It is designed to combine maximum thermal efficiency with minimal weight. Even though it features every major Snow Lion innovation and has been widened from the chest to the enlarged *Tulip Bulb Foot Section* to accommodate a greater range of body types, it is still light enough to be called the purist's mummy. It is intended for the backpacker/mountaineer who needs an extremely high performance product, with sufficient warmth and comfort to take to the mountains all year around, but who prefers to carry less than 4 lbs. of sleeping bag on his or her back. Nothing is spared in the production of the ULTRALIGHT: standard construction includes exclusive Snow Lion features such as the *Two Zipper System*, *Differential Baffle Depth*, *Body Contour Baffling*, *Ground Level Side Block*, *Four Pattern Shell Construction*, and *Tuck Stitching* at twelve stitches per inch. To make the ULTRALIGHT comfortable under moderate conditions, we recommend that the inner zipper be unzipped to add more room inside and permit ventilation through use of the two-way outer zipper. Over the years, the ULTRALIGHT has more than proven itself to thousands of backpackers across the country. Without question, it has become one of America's most desired sleeping bags. In view of the ULTRALIGHT's extensive array of technically advanced features and its exceptional performance record, we consider it a major achievement to offer this bag at the prices listed below.

5" Slant Wall Construction

Avg. Min. Temp. Conservatively Estimated - 5°F
Available in Midnight Blue - Stuff Sack Included
Regular for Persons to 5' 10" Long to 6' 3"

ULTRALIGHT REGULAR

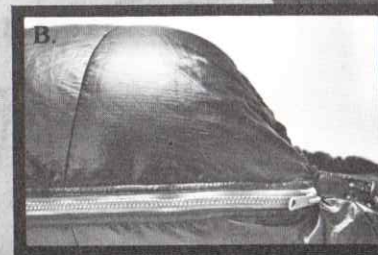
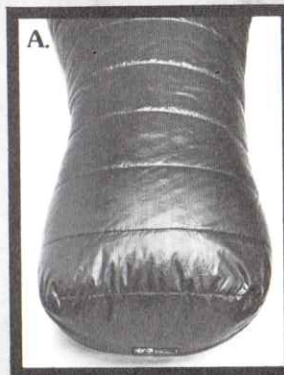
32 Ounces Downfill
Total Weight: 3 lbs. 5 oz.
\$98.00

ULTRALIGHT LONG

35 Ounces Downfill
Total Weight: 3 lbs. 10 oz.
\$106.00

A. The ULTRALIGHT's Tulip Bulb Footsection is an extra spacious compartment for those whose feet won't tolerate cramped quarters. There's even room enough to store clothing if desired.

B. Clearly demonstrated are Differential Baffle Depth, which puts more down over the body, and Ground Level Side Block, which prevents cold spots from forming beneath zipper and side baffle.



Wonderbag

A ground swell of loyal followers has developed around the intriguing WONDER BAG. It is suspected that WONDER BAG owners are among the most fiercely independent outdoorspeople in the world. This is not surprising when you consider that this bag is unquestionably the most versatile down bag ever made. It performs so many functions in so many different positions that even the least creative among us would be challenged to use them all, truly a backpacker's semi rectangular bag for all seasons. From a pragmatic viewpoint, each WONDER BAG can zip side by side with any Snow Lion mummy regardless of length or zipper side, two WONDER BAGS of the same length can be zipped one on top of the other with hoods side by side (a first for bags paired with zippers around the perimeter), each WONDER BAG can perform in either a right or left zippered position, a WONDER BAG can be opened flat for use as a comforter, etc. From the more adventurous viewpoint, WONDER BAGS can be opened and zipped side by side for as long as the eye can see; regular lengths can be paired foot to foot and zipped into infinite combinations; eight or more WONDER BAGS can be zipped together to form a tent; an endless stream of possibilities exists, some sensible some humorous. The secret to this fascinating creation is two consecutive zippers and a detachable hood which snaps onto either side of the bag. In summary, the WONDER BAG offers considerably more than the expected warmth and security of a well constructed down bag; it offers a personality of its own, an exciting experience that promises everything but boredom.

5" Slant Wall Construction

Avg. Min. Temp. Conservatively Estimated: 0° F

Available in Raspberry Exterior, Copper Interior— Stuff Sack Included

Regular for Persons to 6' 0" Long to 6' 5"

WONDER BAG REGULAR

36 Ounces Downfill

Total Weight: 3 lbs. 14 oz.

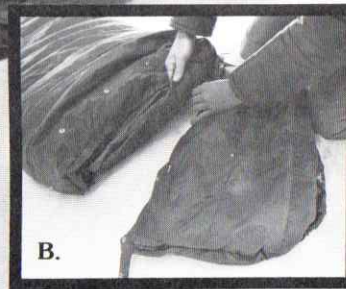
\$104.00

WONDER BAG LONG

39 Ounces Downfill

Total Weight: 4 lbs. 3 oz.

\$110.00



A. Although WONDER BAGs are normally zipped side by side or one on top of another, it is possible for the adventurous to zip two regular length WONDERs foot to foot.

B. The WONDER's hood section can be snapped onto either side of the bag so that it is in the correct position whether the zipper is on the right or left.

Northstar

A generously proportioned mummy, the four season NORTHSTAR is wider and longer than the ULTRALIGHT and is constructed with deeper baffles and more down for greater loft. It is intended for the mountaineer likely to encounter severe or prolonged weather conditions at high altitude as well as the avid cold weather backpacker. Like the LIMITED EDITION STANDARD, the 1976 NORTHSTAR is equipped with our revolutionary *Optional Collar System*. Softside Velcro® strips and recessed snaps have been carefully and permanently installed at the curve of the neck to accommodate the optional collar. Use of the collar greatly increases warmth by reducing interior air circulation and preventing heat escape. The NORTHSTAR features all the Snow Lion innovations including the *Two Zipper System*, *Differential Baffle Depth*, *Body Contour Baffling*, *Ground Level Side Blocks*, *Tulip Bulb Foot Section*, *Four Pattern Shell Construction*, *Differential Cut* and *Tuck Stitching*. Its advanced and sophisticated design, its durability and dependability, and its tremendous popularity among those who need a sleeping bag for more than occasional use have made the NORTHSTAR the most outstanding down sleeping bag manufactured anywhere in the 2½ lb. fill category. It is significant that the NORTHSTAR is the favorite among Snow Lion employees. Nearly all our design innovations were first tested on this bag. Therefore, it has been especially gratifying that, as the sleeping bag consumer has become more discriminating, the demand for the NORTHSTAR has dramatically increased. Examine this bag firsthand and we think that you will understand why.

5" Slant Wall Construction

Avg. Min. Temp. Conservatively Estimated: 15°F

Available in Royal Blue—Stuff Sack Included

Regular for Persons to 6' 2" Long to 6' 7"

NORTHSTAR REGULAR

40 Ounces Downfill

Total Weight: 4 lbs. 2 oz.

\$116.00

NORTHSTAR LONG

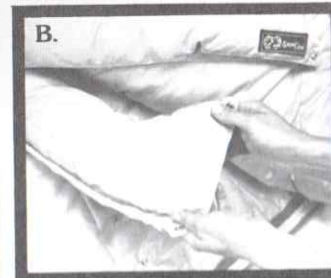
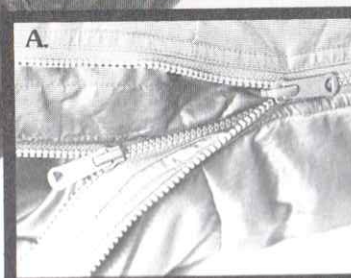
44 Ounces Downfill

Total Weight: 4 lbs. 8 oz.

\$124.00

A. Snow Lion's patented Two Zipper System is standard on all NORTHSTARs. It eliminates zipper draft, provides a back up zipper for emergencies, and allows variations in the Differential Cut.

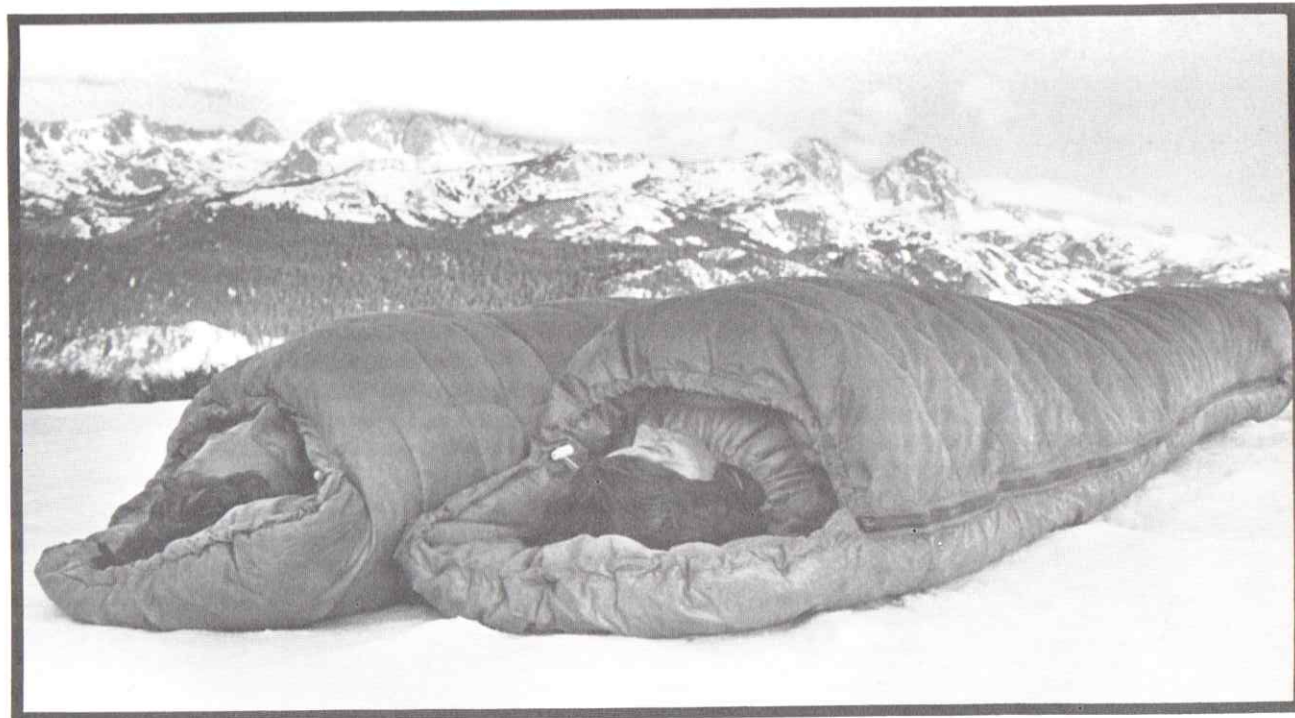
B. The NORTHSTAR's Optional Collar attaches via carefully placed Velcro® and snaps. When in place, the down filled Collar increases thermal efficiency by reducing heat escape from and draft entry into the bag.



Limited Edition Series

When we introduced the LIMITED EDITION STANDARD in 1975, the concept of the "supreme bag" was heralded by perfectionist climbers and discriminating equipment fanatics around the world. By combining the supreme shell with the supreme down, we had redefined the so called "state of the art" in sleeping bag design. We had come far closer to reaching the maximum warmth-to-weight ratio than any other manufacturer. In so doing, we had produced a level of excellence unmatched among the world's sleeping bags. This achievement was made possible by our acquisition of an extremely select and expensive stock of high quality down available in limited quantities with a filling capacity of approximately 650-725 cubic inches per ounce (based on the U.S. Bureau of Standards filling power testing device). In all equipment reviews in which the LIMITED EDITION was compared to other bags, the LIMITED received the highest rating. Its immediate acceptance by the mountaineering community proved once and for all that a legitimate market existed for an ultra-specialized down bag.

With the advent of sophisticated Polarguard bags, the mandate for down sleeping bag makers has become clear: expend all inventive energy toward maximizing the warmth-to-weight ratio and seek out the precise combination of design, materials, and workmanship which best serves that end. We believe that our expanded LIMITED EDITION series answers that imperative. Inspired by the LIMITED STANDARD's resounding success, we have designed and introduced the LIMITED EDITION LIGHT and the LIMITED EDITION EXPEDITION. The technical advances evident in these bags have been made possible by the development of an efficient labor intensive production process, an unmatched quality-control system, and a "total manufacturing time" which is double that of other bag makers. Thus it is easy to understand the high degree of sewing



precision, the perfect baffle offset and alignment, the number of stitches per inch, the reinforcement of stress points and the meticulous attention to detail given to Snow Lion down bags. Because more time is spent on each bag, exclusive features such as *The Two Zipper System*, *Differential Baffle Depth*, *Tulip Bulb Foot Section*, *Body Contour Baffling*, *4-Pattern Shell Construction*, *Ground Level Side Block*, and *The Optional Collar System* can be included. Add the incomparable quality of LIMITED EDITION down, and feature for feature, stitch for stitch, Snow Lion LIMITED EDITIONs are the most outstanding down-filled sleeping bags in the world.

GUARANTEE

The filling capacity of the down in Snow Lion LIMITED EDITION sleeping bags is guaranteed to be higher than that found in any sleeping bag manufactured and sold for re-sale in the United States or your money back.

NOTE: Although we are doing our best to meet the demand, please understand that the scarcity of the special down used in these bags may restrict delivery to dealers.

Limited Edition Light

The slim and incredibly lightweight LIMITED LIGHT has quickly become the most popular member of our Limited Edition series. We feel that this bag represents the most advanced expression of the warmth-to-weight ratio in existence anywhere. It is so compressible that two LIMITED LIGHTs can be squeezed into the bottom compartment of most standard, divided rucksacks. Yet, its 20 oz. (22 oz. long) of Limited Edition down produce 6½" of loft and an average comfort minimum of 5°F. Although some individuals may find its thermally efficient tapered shape confining, it is reasonably wide at the shoulders and "tulip bulbed" at the foot. Because the LIMITED LIGHT is designed to be compact and lightweight, it is equipped with a simple, two-way No. 5 Vislon zipper. It will pair side by side with any Snow Lion two zipper bag of opposite zipper or any Wonder Bag. Special features include our exclusive *Differential Baffle Depth*, *Four Pattern Shell Construction*, *Body Contour Baffling*, *Differential Cut*, *5" Slant Wall Construction*, *Tulip Bulb Foot Section*, and *Tuck Stitching*. In the maximization of the warmth-to-weight concept, in the level of detailed workmanship, in the quality of materials, and in the filling power of the downfill, the LIMITED LIGHT is unmatched among the world's lightweight sleeping bags. It has been created for the climber, backpacker and rucksack traveller who requires a four season bag that will squeeze into the tiniest of places and weigh as close to nothing as possible. If you are a "weight/space" fanatic, the LIMITED LIGHT may be the bag for you.

Avg. Min. Temp. Conservatively Estimated: 5°F
Available in Spruce Green — Stuff Sack Included
Regular for Persons to 5' 10", Long to 6' 3"

LIMITED EDITION LIGHT REGULAR

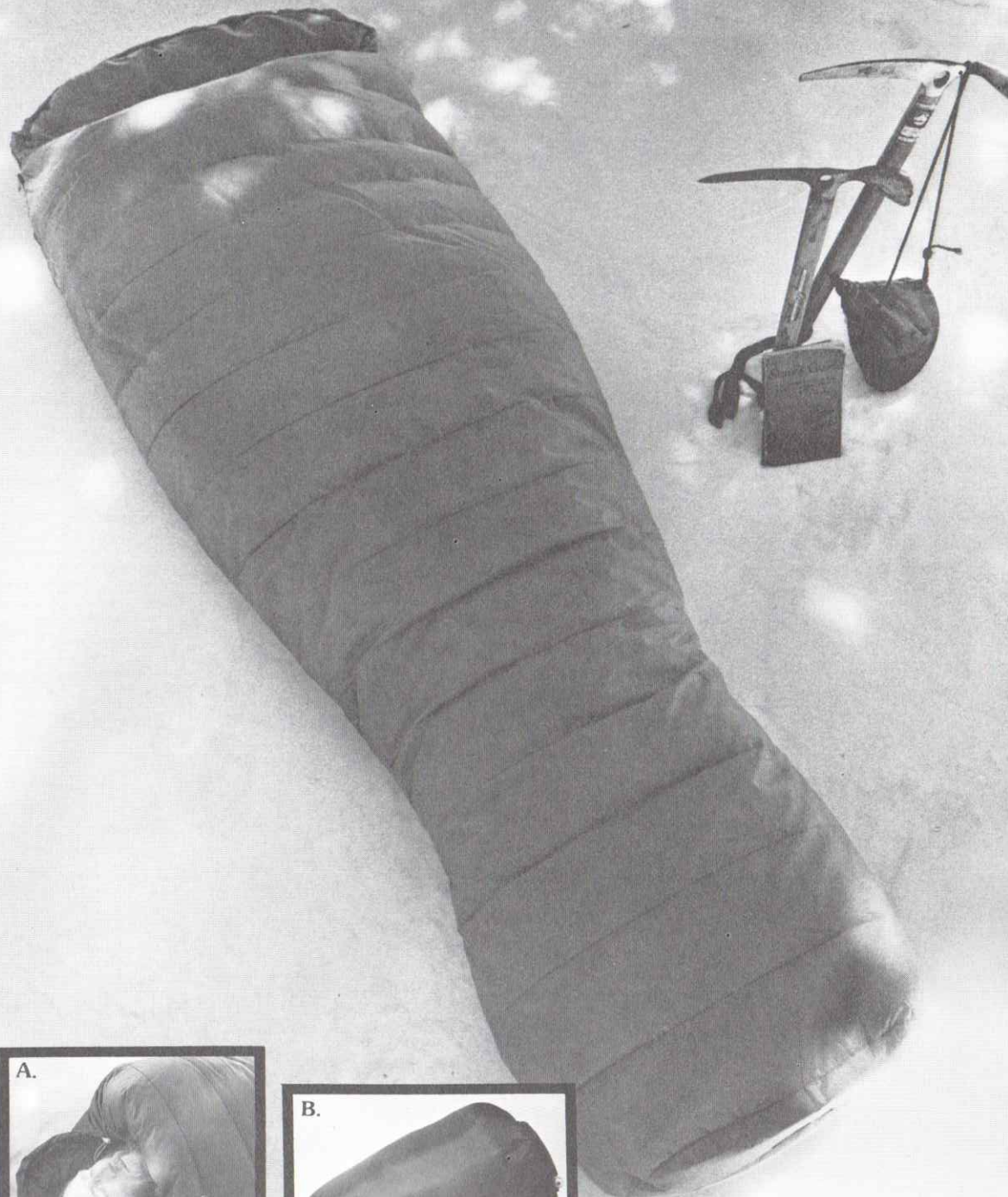
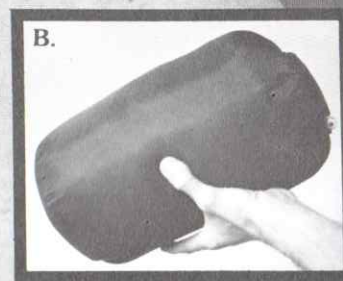
20 Ounces Downfill
Total Weight: 2 lbs. 9 oz.
\$92.00

LIMITED EDITION LIGHT LONG

22 Ounces Downfill
Total Weight: 2 lbs. 13 oz.
\$98.00

A. The LIMITED LIGHT's hood section is generously cut and draws snugly over the head with the help of a nylon drawcord, cordlock, and Velcro® closure.

B. In addition to its super lightness, the LIMITED LIGHT is extremely compact. It easily fits into the 8" x 16" stuff sack.



Limited Edition Standard

The LIMITED EDITION STANDARD has been designed for and the highest level of excellence in a sleeping bag. The quality of materials, the technology of design, and the detailed workmanship built into this bag is unsurpassed. The first of our highly acclaimed LIMITED EDITION series, the LIMITED STANDARD has proven itself around the world. The outpouring of written accolades and compliments from owners has vividly demonstrated this bag's outstanding performance. In a recent survey by *Backpacker Magazine*, the LIMITED STANDARD received the highest rating in comparison with other top "2 lbs. fill" down bags in the country. In addition to the super filling power of the down-fill, the LIMITED STANDARD incorporates an unparalleled variety of sophisticated features including snap and Velcro[®] placement for attachment of our *Optional Collar System*, the *Two Zipper System*, *Differential Baffle Depth*, *Body Contour Baffling*, *Ground Level Side Block*, *Tulip Bulb Foot Section*, *Four Pattern Shell Construction*, and *Tuck Stitching* at twelve stitches per inch. In practical terms, this bag's greatest virtue is the ratio of materials and features to total weight. To our knowledge, the LIMITED STANDARD is the first sleeping bag manufactured with a total weight under 4 lbs. which can be used in the extreme low temperatures encountered by high altitude mountaineers. Yet, it is not a restrictive, tight-fitting bag. Rather, it is cut along the same spacious mummy lines as the NORTHSTAR. Considering all the essential criteria for evaluating four season down bags, the LIMITED STANDARD is the finest in the world.

5" Slant Wall Construction

Avg. Min. Temp. Conservatively Estimated: 20°F

Available in Rust—Stuff Sack Included

Regular for Persons 6' 2" Long to 6' 7"

LIMITED EDITION STANDARD REGULAR

32 Ounces Downfill

Total Weight: 3 lbs. 12 oz.

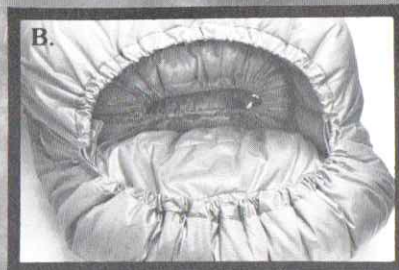
\$139.00

LIMITED EDITION STANDARD LONG

34 Ounces Downfill

Total Weight: 4 lbs.

\$147.00



A. Snow Lion's patented Two Zipper System is featured on all LIMITED STANDARDS.

B. The LIMITED STANDARD features a large hood section, which is designed to be compatible with the Optional Collar.

Limited Edition Expedition

The LIMITED EDITION EXPEDITION is unquestionably one of the world's premier downfilled sleeping bags. It is intended for alpine mountaineers who anticipate prolonged use at high altitude and extremely cold conditions. The performance statistics piled up by the expedition are awesome. Well-known alpine climber, George Ochenski, has commented that, "When comparing the LIMITED EXPEDITION to the best expedition bags in the business, and I've used them all, the Snow Lion bag is by far the warmest and most durable of the bunch. I'd recommend it over any of them." George's remarks are typical of the feedback we receive from experienced mountaineers. The Expedition's reputation is built on its unsurpassed level of technical and designing excellence. Every Snow Lion sleeping bag innovation is featured: the Two Zipper System, Differential Baffle Depth, Body Contour Baffling, Ground Level Side Block, Tulip Bulb Foot Section, Four Pattern Shell Construction, and Tuck Stitching. A downfilled collar with Velcro and drawcord adjustments is permanently sewn-in at the shoulders. So that bulky clothing may be worn if desired, the Expedition is cut wider than any of our down bags and is equipped with the largest foot section. To achieve the Expedition's 10" plus loft, our extremely select and expensive stock of limited down is filled in slanted baffle walls which are 10" wide in the upper portion of the bag and 6" in the lower portion. Although it is nearly impossible for the average person to ever sleep cold in this bag, it is far too warm for normal backpacking or winter camping.

Avg. Min. Temp. Conservatively Estimated: -40°F
Available in Cherry Red — Stuff Sack Included
Regular for Persons to 6'2" Long to 6'7"

LIMITED EDITION EXPEDITION REGULAR

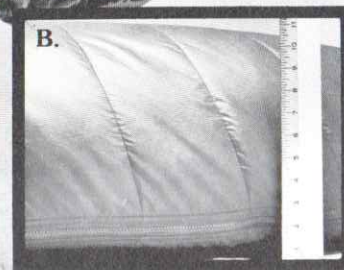
44 Ounces Downfill
Total Weight: 4 lbs. 10 oz.
\$166.00

LIMITED EDITION EXPEDITION LONG

47 Ounces Downfill
Total Weight: 5 lbs.
\$175.00

A. The generously sized EXPEDITION hood section is designed to work in conjunction with the permanently sewn-in down-filled collar.

B. The high lofting LIMITED EXPEDITION is one of the world's warmest sleeping bags. With 60% of the downfill over the body, its insulating abilities are remarkable.



Sleeping Bag Comparison Chart

	oz. fill ¹	total weight ²	outer zipper	inner zipper	fits persons to	inside shoulder girth	hip girth	construction ³	tube width	loft	avg. min. temp. ⁴	price
FOOTSACK	22P	2 lbs. 2 oz.	NONE	NONE	4'8"	54"	46"	2/2	8"	4½"	20°F	\$ 41.50
SMALL SACK	34P	3 lbs. 4 oz.	58"	NONE	5'8"	60"	56"	2/2	8"	4½"	20°F	\$ 54.50
SMALL SACK SUPER	42P	3 lbs. 14 oz.	58"	NONE	5'8"	60"	56"	3/2	8"	5½"	10°F	\$ 59.50
SNOW FOX REGULAR	28P	3 lbs. 3 oz.	70"	NONE	5'11"	62"	54"	2/2	8"	4"	35°F	\$ 52.50
SNOW FOX LONG	33P	3 lbs. 8 oz.	70"	NONE	6'5"	62"	54"	2/2	8"	4"	35°F	\$ 56.00
SEMI	46P	4 lbs. 12 oz.	95"	NONE	6'2"	63"	64"	2/2	8"	4½"	30°F	\$ 65.00
MOUNTAIN LIGHT REGULAR	46P	4 lbs. 2 oz.	70"	NONE	5'11"	62"	54"	2/2	8"	5½"	15°F	\$ 64.50
MOUNTAIN LIGHT LONG	52P	4 lbs. 8 oz.	70"	NONE	6'5"	62"	54"	2/2	8"	5½"	15°F	\$ 67.50
SNOW LION	52P	4 lbs. 8 oz.	70"	NONE	6'3"	63"	58"	2/2	8"	5½"	20°F	\$ 66.00
SNOW LION SUPER	60P	5 lbs. 5 oz.	70"	NONE	6'3"	63"	58"	3/2	8"	6½"	5°F	\$ 71.00
OVERBAG	56P	5 lbs. 4 oz.	95"	NONE	6'3"	73"	75"	2/2	8"	4½"	35°F	\$ 67.50
MOUNTAIN LION SUPER REGULAR	52P	4 lbs. 9 oz.	70"	NONE	5'11"	62"	54"	3/2	8"	6½"	0°F	\$ 74.50
MOUNTAIN LION SUPER LONG	58P	5 lbs. 4 oz.	70"	NONE	6'5"	62"	54"	3/2	8"	6½"	0°F	\$ 77.50
POLARGUARD EXPEDITION REGULAR	68P	6 lbs. 4 oz.	70"	NONE	5'11"	64"	56"	4/2	8"	8"	-20°F	\$ 85.00
POLARGUARD EXPEDITION LONG	74P	6 lbs. 12 oz.	70"	NONE	6'5"	64"	56"	4/2	8"	8"	-20°F	\$ 89.00
LIMITED EDITION LIGHT REGULAR	20D	2 lbs. 9 oz.	70"	NONE	5'10"	58"	53"	Slant	5"	6½"	5°F	\$ 92.00
LIMITED EDITION LIGHT LONG	22D	2 lbs. 13 oz.	70"	NONE	6'3"	58"	53"	Slant	5"	6½"	5°F	\$ 98.00
ULTRALIGHT REGULAR	32D	3 lbs. 5 oz.	70"	65"	5'10"	60"	56"	Slant	5"	7½"	-5°F	\$ 98.00
ULTRALIGHT LONG	35D	3 lbs. 10 oz.	70"	65"	6'3"	60"	56"	Slant	5"	7½"	-5°F	\$106.00
WONDER BAG REGULAR	36D	3 lbs. 14 oz.	70", 18"	NONE	6'0"	62"	63"	Slant	5"	7"	5°F	\$104.00
WONDER BAG LONG	39D	4 lbs. 3 oz.	70", 23"	NONE	6'5"	62"	63"	Slant	5"	7"	5°F	\$110.00
NORTHSTAR REGULAR	40D	4 lbs. 2 oz.	70"	65"	6'2"	64"	60"	Slant	5"	8½"	-15°F	\$116.00
NORTHSTAR LONG	44D	4 lbs. 8 oz.	70"	65"	6'7"	64"	60"	Slant	5"	8½"	-15°F	\$124.00
LIMITED EDITION STD. REGULAR	32D	3 lbs. 12 oz.	70"	65"	6'2"	64"	60"	Slant	5"	9"	-20°F	\$139.00
LIMITED EDITION STD. LONG	34D	4 lbs.	70"	65"	6'7"	64"	60"	Slant	5"	9"	-20°F	\$147.00
LIMITED EDITION EXPED. REGULAR	44D	4 lbs. 10 oz.	70"	65"	6'2"	64"	60"	Slant	5"	10½"	-40°F	\$166.00
LIMITED EDITION EXPED. LONG	47D	5 lbs.	70"	65"	6'7"	64"	60"	Slant	5"	10½"	-40°F	\$175.00

1p = Polarguard, D = Down.

2 = Due to minor variations in the resin content, the thickness and density of Polarguard, the total weights indicated may vary by plus or minus 10%.

3 = 2/2 = Double top/bottom; 3/2 = triple top/double bottom; 4/2 = four layer top/double bottom; slant = 50% offset slant baffle walls.

4 = It must be stressed that the temperatures quoted are conservative estimates and are subject to the following comfort variables: body metabolism and physical condition, the degree of convection effected by wind, the use of ground pads for added insulation, the effect of heat radiation, and the amount of clothing in use while sleeping.

Polarguard[®] Sleeping Bags



Polarguard® Insulation

Have you ever taken a down bag on a backpacking trip—only to have rain follow you every step of the way? Or slept in a dripping snow cave? Or overturned a loaded canoe? Or bivouaced in an exposed position during a thunderstorm? Or puzzled, after several damp nights, at the daily decrease in loft in spite of your efforts to keep the bag dry? If you've experienced any of the above, you probably know the discomfort of sleeping in a wet down bag. The alternative is a synthetic-filled sleeping bag. Until recently, lack of loft, durability and excessively burdensome weights turned off serious mountaineers. Now, however, Snow Lion and the revolutionary Celanese Fortrel Polarguard,[®] a "continuous filament polyester fibre," have solved these problems and converted a number of one-time skeptics.

As the pioneering force behind the development and application of Polarguard for the backpacking/mountaineering community, we have helped alter modern day thinking about lightweight insulating systems for wilderness travel. With the help of thousands of climbers and hikers, we have proven beyond argument that Polarguard products are tough, resilient and long-lasting. We have received countless testimonials from alpinists and backpackers everywhere. During 1975-1976, for instance, over forty major American, British, German, Canadian, and Japanese high altitude expeditions have decided to purchase Snow Lion Polarguard products. While this doesn't make Polarguard the "wonder cure" for every possible cold, wet, windy or icy situation, it clearly demonstrates the overwhelming acceptance of Polarguard by the people whose lives depend on the equipment they use.

It is common knowledge that down has a superior warmth-to-weight ratio, is more compressible and has been around a lot longer than Polarguard. So, why the incredible rush for Polarguard?

ADVANTAGES OF POLARGUARD OVER DOWN

- **DRIES FASTER.** Polarguard dries many times faster than down and maintains much better insulation when wet. After several days of use, compare down and Polarguard bags. The water heavy down bag loses loft

while the Polarguard bag maintains its thickness.

- **UNIFORMITY.** Polarguard's layered continuous filament fibers provide a uniform, "never shifting" barrier of insulation which does not break down, even after repeated washings or stuffings.

- **RESILIENCE.** Because Polarguard has a resilient springiness, significantly greater insulation is achieved underneath the body in a sleeping bag. Hence, a thinner, lighter ground pad, if any, suffices.

- **WASHABILITY.** Polarguard products are easier to take care of than their down counterparts. Frequent washings will not reduce insulation or in any way harm the products, provided that the recommended cleaning instructions are followed. After a few washings, the surface stabilizing resins dissolve and the Polarguard softens and actually increases in loft. In addition, unlike down, Polarguard is mildew-proof.

- **TOUGHNESS.** If the protective fabric to a Polarguard product tears or punctures, repair may be postponed until convenient without fear of leaking or lost insulation. Also, a Polarguard product may be roughly handled without damaging the interior construction; there are no fragile baffles to tear out.

- **READY TO USE.** A Polarguard product need not be fluffed or "prepared" before use to attain loft.

- **"CLOTHES DRIER."** With the assistance of body heat, Polarguard sleeping bags absorb the moisture from wet clothing. This "drying effect" can be of critical importance to persons encountering snowy or wet conditions.

- **PLEASANT TO THE SENSES.** Polarguard polyester fibers are non-allergenic and completely odorless.

- **REASONABLY PRICED.** Polarguard is considerably less expensive than down when applied to products intended for the same use.

THE BREAK-THROUGH DECISION TO USE POLARGUARD

When we contemplated the production of synthetic filled products in 1972, our first inclination was toward more widely known polyesters such as DuPont's Dacron Fiberfill II.[®] However, when prototypes of bags

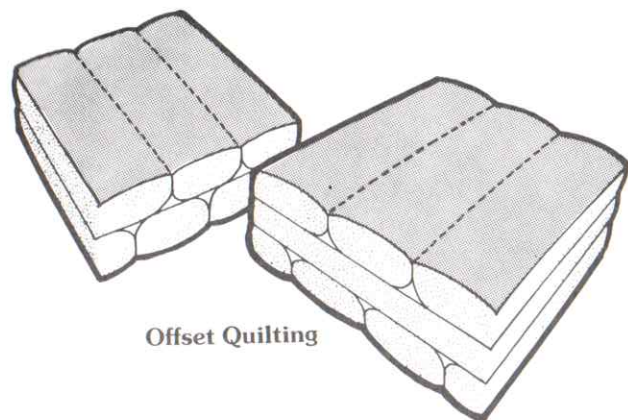
filled with these polyesters developed separations, gaps, and clumping after only a few washings and stuffings, we began testing the relatively new Celanese Polarguard. After only a few days the obvious superiority of the more expensive Polarguard became apparent.

Unlike the other polyesters, which consist of short 2 inch-4 inch fibers, Polarguard is composed of long continuous filament polyester fibers of great strength and resiliency. Polarguard simply does not separate, mat or clump after numerous washings and stuffings as do conventional "staple" polyester fiberfills. When compared to all other synthetic fibers used in the manufacture of sleeping bags and insulated wearing apparel, the high lofting Polarguard has come out far ahead in all our tests of lightness, warmth, and durability.

With the lab and field tests decisively one-sided, we committed to the unheralded Polarguard. As the first in our industry to "get behind" Polarguard, we concentrated on the development of ultra-sophisticated products for distribution solely through our nation-wide dealer network of selected mountaineering/backpacking shops. So tremendous was the consumer response that our production lagged three to four months behind the demand during most of 1974 and 1975. Within two years, most of our competitors rushed to join the Polarguard bandwagon, but they quickly discovered, as we had, that the tough, continuous filament fibers were extremely difficult to work with. The early, break-through decision to use Polarguard has given us a tremendous lead in the handling, cutting and sewing of Polarguard. This experience has allowed us to gain an unequalled level of technical expertise in the construction of Polarguard products.

CONSTRUCTION

OFFSET DOUBLE QUILTING—Our basic method of insulation is the offsetting of two layers of Polarguard precisely quilted at 8" intervals. The two layers are positioned so that the seams are offset exactly 4". This construction eliminates the possibility of cold spots and assures uniform insulation. It is our determination that quilting is the most secure method of stabilizing Polar-



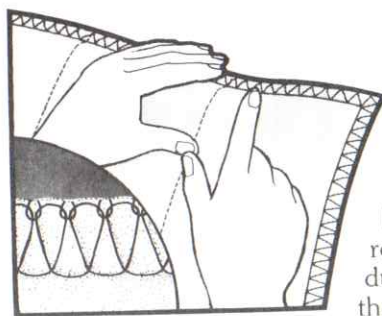
Offset Quilting

guard and insuring the evenness of the insulation over time. Unquilted or "edge-stabilized" construction permits horizontal shifting of the long-fiber Polarguard, whereas, shifting is impossible with offset double quilting.

TRIPLE LAYER SANDWICH—We added a unique dimension to synthetic sleeping bag design with the development, in 1973, of the triple layer sandwich, a technique in which a third, reinforced layer of Polarguard is sewn between the upper double quilt on the Snow Lion Super, Mountain Lion Super and Small Sack Super. This increases the insulation over the body in these bags by 33 percent.

INDIVIDUAL PATTERN CUTTING—Unlike most quilted polyester products, in which the patterns are cut from multiple layered stacks of quilted batting, each SNOW LION bag and garment is individually cut along handmarked patterns from one layer of quilted Polarguard. This precision cutting method makes it possible to produce consistent shape and offset seam alignment. Although this cutting process is considerably more time-consuming than the conventional method, the pieces of the finished product fit and hold together better.

OVERLOCK REINFORCEMENT—In order to insure the toughness and longevity of our Polarguard products, every edge of nylon quilted Polarguard is *Overlock Stitched* to prevent fraying and unraveling. When two quilted sections are sewn together, the edges are tucked and sewn from the inside of the bag or garment. As in individual pattern cutting, overlock



Overlock Stitching

stitching is an extra step which most manufacturers skip. However this hidden reinforcement procedure is the chief reason that Snow Lion Polarguard products withstand rugged use and repeated washings so well. It is also the major reason for extending our "Lifetime Guarantee" to Snow Lion Polarguard products.

SIDE SEAM OVERLAP—This is a Snow Lion exclusive feature in which a special strip of Polarguard is sewn between the inner and outer side seam of the Snow Fox, Mountain Light, Semi, Overbag, Mountain Lion Super, and Expedition bags. This overlap creates an extra layer of insulation along what would otherwise be a potential cold seam.

DIFFERENTIAL CUT—All Polarguard inner shells are narrower in circumference than outer shells. This technique eliminates the incidence of lost insulation caused by elbows and knees pressing the inner shell against the outer shell.

MATERIALS

VISLON ZIPPERS—Two-way, zippers are used exclusively. We have used these injection molded, problem free zippers for years and guarantee them for the life of the bag or garment. The No. 5 is used on all bags and garments except the Expedition Overparka which features the No. 10 size. All opposite zipper sleeping bags of the same length will zip together side by side. Two Semis or Overbags will zip one on top of another.

RIPSTOP NYLON—All Snow Lion nylon products feature 1.9 oz. ripstop fabric, a high-construction ripstop with a DWR (Durable Waterrepellent) finish.

65/35 CLOTH—A double blend of 65 percent

polyester 35 percent cotton fabric has been woven specially for us by one of the world's premier makers of 65/35 cloth. This rugged material is treated with a non-shrink, DWR finish.

SUPER KLAY KOTE NYLON TAFFETA—This is an expensive two-ply nylon taffeta, heavily coated for water-proofness. It is used on the outer shoulders of the Rocky Mountain Parka and features an opaque finish to prevent the inner lining from showing through.

THREAD—High-strength polyester/cotton and 100 percent nylon threads are used throughout.

CLEANING POLARGUARD PRODUCTS

GENERAL INSTRUCTIONS. Washing temperatures should not exceed 140°F on products with nylon shells. Cold water is recommended for polyester/cotton fabrics. Use a mild soap, avoid enzymes and fabric softeners. Air dry or use a large capacity (laundromat size) dryer on the lowest temperature setting. Do not place more than one sleeping bag or two garments in a dryer. Do not dry clean.

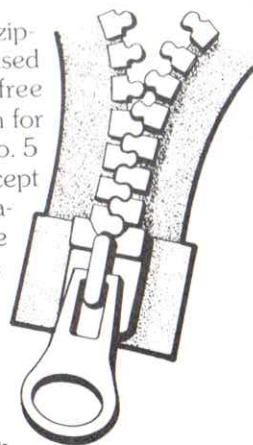
MACHINE WASHING. Use a large capacity, front-loading washing machine only. Small capacity (home-size or double-load) machines prevent adequate cleaning and can cause severe damage to the bag or garment. Avoid agitators.

HAND WASHING. Gently knead the bag or garment in a tub, then, allow it to soak for 20-30 minutes. Rinse until all of the soap has departed. Press down on the bag or garment to push out most of the water before lifting from the tub. Give support to the whole article while lifting.

LONGEVITY OF POLARGUARD PRODUCTS

Perhaps the greatest indication of Polarguard's long lifespan is the lack of products returned to

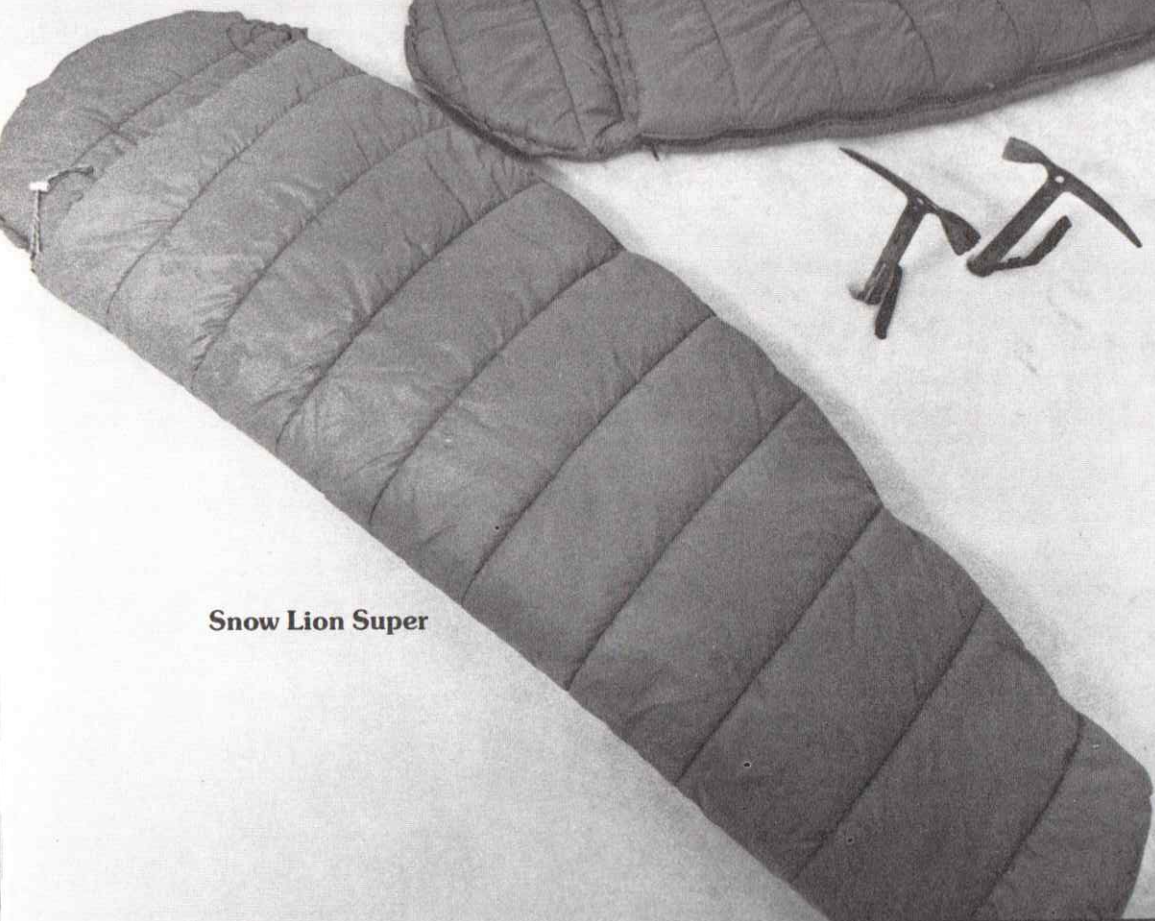
Berkeley for repair or replacement. As the most experienced manufacturer of Polarguard bags and garments, we never cease to be amazed at the toughness and durability of this unique fiber. We don't hesitate to give our lifetime guarantee to all Snow Lion Polarguard products.



Snow Lion



Snow Lion Super



Snow Lion

Back in 1972, Cynthia Brown and Lucille Stauduhar spent five weeks attempting to cut, quilt and sew a relatively obscure continuous filament fiberfill known as Polarguard. It was so tough to work with that they considered giving up on the stuff. But, somehow, they persevered and gave birth to our first Polarguard sleeping bag, the SNOW LION. The immediate success of this roomy, modified mummy triggered the now prolific Polarguard revolution. As it did then, the 1976 SNOW LION features 10 oz. Polarguard Offset Double Quilt construction on top and bottom, a large oval footsection, a spacious hood with drawcord and Velcro® closures, and a two way #5 Vislon zipper with draft flap. The SNOW LION is the ideal three season bag for the backpacker who needs a measure of roominess. After four years in the field, Cynthia's and Lucille's baby is as much a part of the revolution as ever.

Avg. Min. Temp. Conservatively Estimated: 20° F

Available in Royal Blue or Spruce Green—Stuff Sack Included

Fits Persons to 6' 3" - 50 Ounces Polarguard Fill

Total Weight: 4 lbs. 8 oz.

\$66.00

Snow Lion Super

Soon after our first Polarguard bags were developed, Brian Gregory took a prototype SNOW LION SUPER to Aconcagua where he slept near the 22,850' summit. Aided by layers of warm clothing, he slept comfortably in high winds at sub-zero temperatures. Unlike some of his companions who slept in down sleeping bags, he remained dry and unfrostbitten. Thus, Brian and the Polarguard filled SUPER pioneered the way for what has become the mainstay insulation of high altitude expeditions. Although the SNOW LION SUPER is not recommended for sub-zero use, it may be the right bag for you if a few nights of cold weather are expected and the extra room of a modified mummy is desired. Our unique Triple Layer Sandwich is the secret to its added warmth.

Avg. Min. Temp. Conservatively Estimated: 5° F

Available in Royal Blue or Spruce Green—Stuff Sack Included

Fits Persons to 6' 3" - 60 Ounces Polarguard Fill

Total Weight: 5 lbs. 5 oz.

\$71.00

A. A Polarguard filled draft flap blocks cold air from entering through the zipper.

B. Hood sections on both the SNOW LION and SUPER are generously sized and easy to adjust.

Mountain Light

Its contoured mummy shape and surprisingly light total weight have made the MOUNTAIN LIGHT our most popular Polarguard bag. Basic construction is Offset Double Quilt with one layer each of 8 oz. and 10 oz. Polarguard on the top, bottom and foot. The MOUNTAIN LIGHT's two-way, #5 Vislon zipper is 70" long and is backed by our exclusive Polarguard-filled draft flap with pellow stiffener to prevent zipper snag. Demonstrating its "zip together" versatility, the MOUNTAIN LIGHT can be paired with any Snow Lion mummy except the SMALL SACK and SMALL SACK SUPER. For durability, each quilted section of the MOUNTAIN LIGHT is individually cut, Overlock Stitched and reinforced before being joined to the adjacent section. The MOUNTAIN LIGHT is the ideal three season sleeping bag for the backpacker likely to encounter cold or cold-wet conditions.

Avg. Min. Temp. Conservatively Estimated: 15°F
Available in Navy Blue or Rust—Stuff Sack Included
Regular for Persons to 5' 11" Long to 6' 5"

MOUNTAIN LIGHT REGULAR

46 Ounces Polarguard Fill
Total Weight: 4 lbs. 2 oz.

\$64.50

MOUNTAIN LIGHT LONG

52 Ounces Polarguard Fill
Total Weight: 4 lbs. 10 oz.

\$67.50

Mountain Lion Super

Similar in shape to the MOUNTAIN LIGHT, the striking two-toned MOUNTAIN LION SUPER features our unique Triple Layer Sandwich construction on the top and Offset Double Quilt on the bottom. For maximum warmth and minimum weight, the triple upper layers are 10 oz. Polarguard and the double quilted lower layers are 8 oz. Polarguard. Although in production for less than three years, the MOUNTAIN LION SUPER has performed impressively in high altitude conditions throughout the Western Hemisphere. It is our most popular fall and winter season Polarguard bag.

Avg. Min. Temp. Conservatively Estimated: 0°F
Available with Navy Blue or Rust Bottom and Royal Blue or Spruce Green Top—Stuff Sack Included
Regular for Persons to 5' 11" Long to 6' 5"

MOUNTAIN LION SUPER REGULAR

52 Ounces Polarguard Fill
Total Weight: 4 lbs. 9 oz.

\$74.50

MOUNTAIN LION SUPER LONG

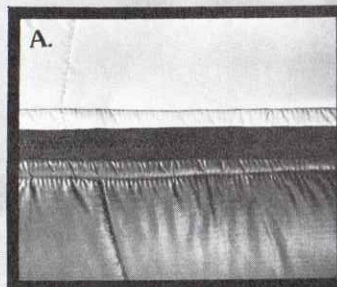
58 Ounces Polarguard Fill
Total Weight: 5 lbs. 4 oz.

\$77.50



Mountain Lion Super

Mountain Light



A.



B.

A. The MOUNTAIN LION SUPER features two toned construction to emphasize the distinction between its three top layers of 10 oz. Polarguard and its two 8 oz. bottom layers.

B. Like all our Polarguard bags, the MOUNTAIN LIGHT and MOUNTAIN LION SUPER have large hood sections.

Snow Fox

An exciting addition to our 1976 Polarguard line, the SNOW FOX defies the skeptics who contend that all synthetic bags are heavy and bulky. The design and development of the SNOW FOX, with its total weight of 3 lbs. 3 oz. represents a major achievement in the production of Polarguard-filled sleeping bags. Construction is Offset Double Quilt throughout — two layers of 8 oz. Polarguard on the top and two 6 oz. layers on the bottom. All quilted sections are individually cut, Overlock Stitched, and reinforced before being joined to adjacent sections. The FOX's two-way #5 Vislon zipper is backed by our exclusive Polarguard filled draft flap and can be paired with any Snow Lion mummy except the SMALL SACK and SMALL SACK SUPER. Add these up and the result is an incredible Polarguard value.

Avg. Min. Temp. Conservatively Estimated: 35°F
Available with Royal Blue or Spruce Green Bottom
and Rust or Tan Top — Stuff Sack Included
Regular for Persons to 5' 11", Long to 6' 5"

SNOW FOX REGULAR
28 Ounces Polarguard Fill
Total Weight: 3 lbs. 3 oz.
\$52.50

SNOW FOX LONG
33 Ounces Polarguard Fill
Total Weight: 3 lbs. 8 oz.
\$56.00

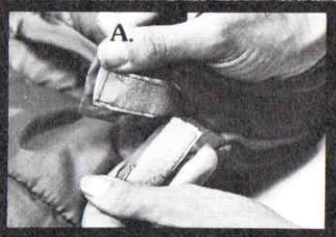
Semi

Short for semi-rectangle, the barrel shaped SEMI is our answer to those determined individuals who will settle for nothing less than a roomy, hoodless, zip-around-the-foot bag which opens for use as a comforter, which pairs one on top of another, and which is light enough for backpacking. So that space-greedy and claustrophobic feet can spend restful nights in the wilderness, the SEMI provides an extra large oval footsection. To keep the average sleeper warm at freezing temperatures, the construction is two layers of 8 oz. Polarguard Offset Double Quilted throughout. And, like all Snow Lion Polarguard bags, each quilted section of the SEMI is individually cut, Overlock Stitched, and reinforced for durability. A 95" #5 Vislon zipper extends around-the-foot and ventilates from the bottom.

Avg. Min. Temp. Conservatively Estimated: 30°F
Available in Navy Blue or Rust — Stuff Sack Included
Fits Persons to 6' 2" — 46 Ounces Polarguard Fill
Total Weight: 4 lbs. 12 oz.
\$65.00

A. Velcro® closures are located at the top of the zipper on both the SEMI and SNOW FOX.

B. The SNOW FOX hood section is full sized and can be drawn completely over the sleeper's head.



Small Sack

The SMALL SACK is basically a shorter version of the SNOW LION with 8 oz. Polarguard Offset Double Quilt construction on top, bottom, and foot. Its lighter weight and greater thermal efficiency make it the ideal sleeping bag for persons under 5' 8". Further, the SMALL SACK's 58" zippers will join together side by side when left and right zippered bags are paired.

Avg. Min. Temp. Conservatively Estimated: 20°F
Available in Navy Blue or Rust—Stuff Sack Included
Fits Persons to 5' 8"
34 Ounces Polarguard Fill
Total Weight: 3 lbs. 4 oz. **\$54.50**

Small Sack Super

The SMALL SACK SUPER is the cold-weather counterpart of the SMALL SACK. Its construction features our unique triple layer top/double bottom with Offset Quilting throughout. The 58" #5 Vislon zipper can be joined side by side to a SMALL SACK or another SUPER if desired. Therefore, if you are 5' 8" or under and are looking for a sleeping bag in which to ski-tour or winter camp as well as backpack in the summer, we hope that you will take a long look at the SMALL SACK SUPER.

Avg. Min. Temp. Conservatively Estimated: 10°F
Available in Navy Blue or Rust—Stuff Sack Included
Fits Persons to 5' 8"
42 Ounces Polarguard Fill
Total Weight: 3 lbs. 14 oz. **\$59.50**

Footsack

Specially designed for use in tentless bivouac, our Polarguard FOOTSAK is virtually replacing down-filled versions among serious climbers across the country. Unlike down footsacks, the Polarguard FOOTSAK provides crucial protection from the rain and snow which constantly plague vertical bivouac and gives excellent insulation underneath—where the luxury of a pad is rarely enjoyed. The FOOTSAK features a wide, arc-shaped hood with drawcord to insulate the kidneys and lower back. The construction is Offset Double Quilt top, bottom, and foot.

Avg. Min. Temp. Conservatively Estimated: 20°F
Available in Navy Blue or Rust—Stuff Sack Included
Inside Length Excluding Hood: 54"
22 Ounces Polarguard Fill
Total Weight: 2 lbs. 2 oz. **\$41.50**

Small Sack

Footsack

Small Sack Super



Combined with a warm parka, the FOOTSAK is a fantastic bag for big wall climbing, alpine mountaineering, and emergency bivouacing. As the photo illustrates, the hood easily covers the lower back and kidneys.

**Polarguard
Expedition**



Overbag



Polarguard Expedition Bag

The super thick EXPEDITION has been built for one purpose: to afford maximum protection in the cold and cold-wet conditions associated with constant exposure to snow and ice. The construction is straight-forward: six layers of 10 oz. Polarguard, four on top, two on the bottom. So that bulky clothing may be easily stored, the EXPEDITION is cut 2" wider than the MOUNTAIN LION SUPER and has an extra roomy footsection. A Polarguard-filled collar is permanently sewn above the shoulders to trap heat inside and prevent cold draft. And, to supplement the EXPEDITION's superior insulating efficiency, the two-way Vislon zipper is backed by a double system of Polarguard-filled draft flaps. Finally, a specially designed, heavy-duty compressor sack is supplied with each EXPEDITION bag.

Avg. Min. Temp. Conservatively Estimated: -20°F

Available in Royal Blue or Spruce Green

Regular for Persons to 5' 11," Long to 6' 5"

POLARGUARD EXPEDITION REGULAR

68 Ounces Polarguard Fill

Total Weight: 6 lbs. 4 oz. **\$85.00**

POLARGUARD EXPEDITION LONG

74 Ounces Polarguard Fill

Total Weight: 6 lbs. 12 oz. **\$89.00**

Overbag

The OVERBAG is a giant, hoodless mummy with a large footsection and an around-the-foot #5 Vislon zipper. For 1976 we are making this bag with 8 oz. Polarguard Offset Double Quilted throughout. The OVERBAG is designed to combine with down or Polarguard mummy-shaped bags to provide the ultimate in comfort and protection during prolonged exposure to cold or cold-wet conditions. The following comment illustrates its effectiveness: "With your MOUNTAIN LION SUPER and OVERBAG, this was the first expedition in which I was warm every night. Never even came close to being cold" (1975 Saint Elias Traverse Expedition). The versatile OVERBAG can be opened to form a comforter or two can zip together, making it particularly appealing to those desiring extra spacious sleeping accommodations.

Avg. Min. Temp. Conservatively Estimated: 35°F
Available in Navy Blue or Rust—Stuff Sack Included

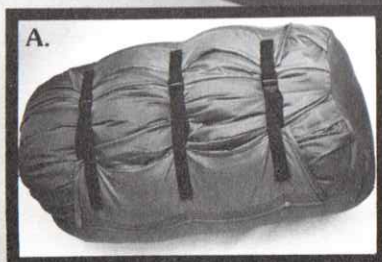
Fits Persons to 6' 3"

56 Ounces Polarguard Fill

Total Weight: 5 lbs. 4 oz. **\$67.50**

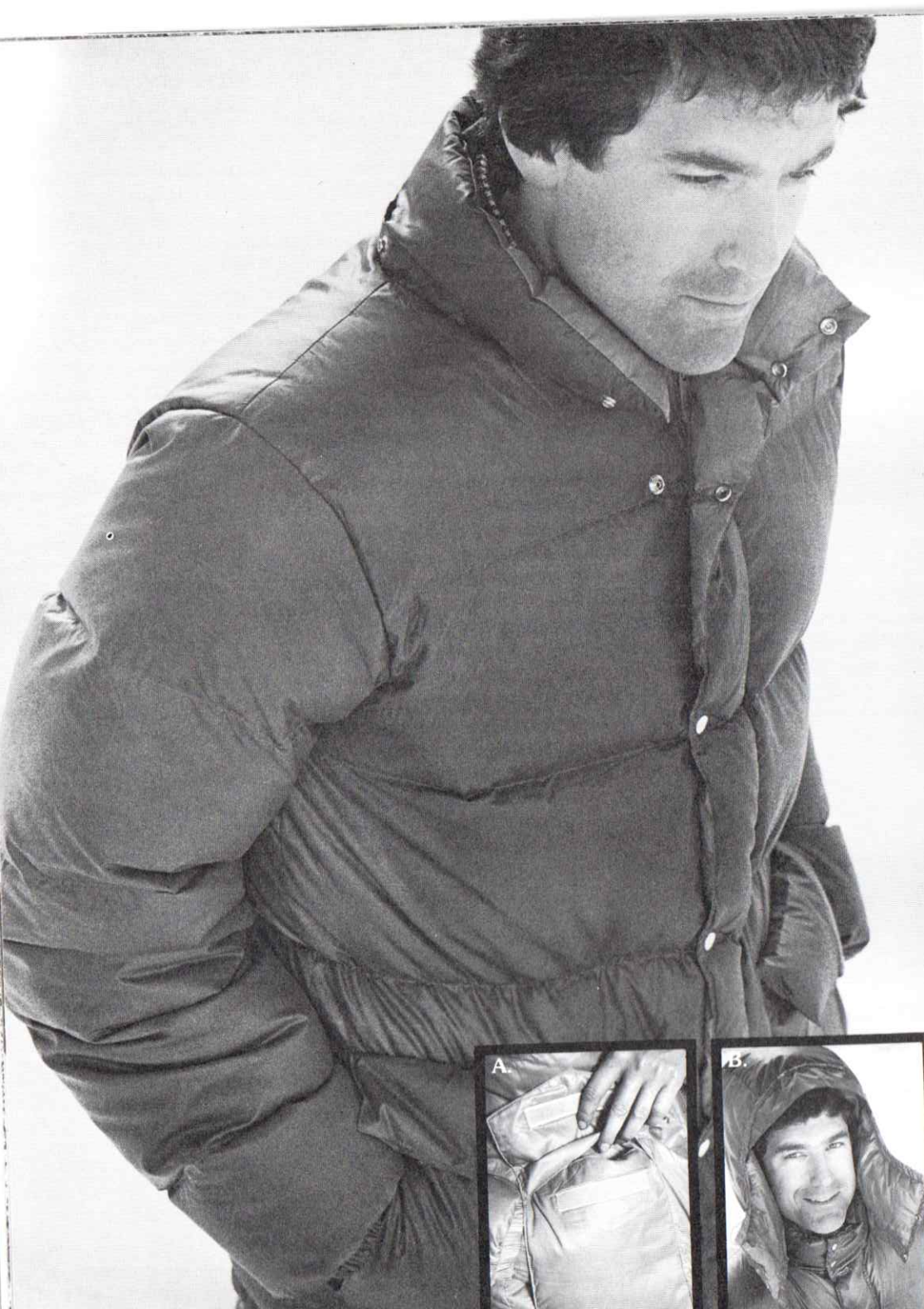
A. Three adjustable belts of heavily reinforced nylon webbing compress the EXPEDITION into a reasonable carrying size.

B. The OVERBAG is sized to accept a full-sized mummy. Enough room is usually left to dry wet clothing between the two bags.



A photograph of three people in winter down clothing. On the left, a person in a blue and white jacket holds a ski pole. In the center, a man in a red jacket smiles. On the right, a man in a tan jacket with a green collar smiles. The background is a bright, snowy landscape.

Down Clothing



Ultimate Parka

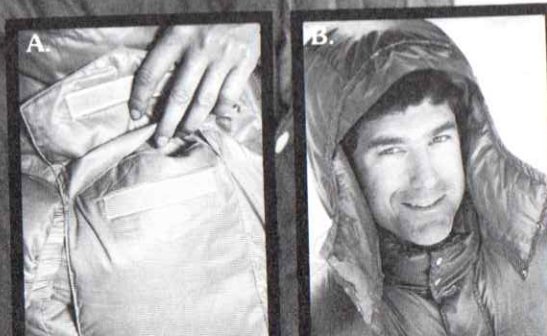
It's ironic that the ULTIMATE PARKA may well be the most popular down parka offered in mountaineering/backpacking shops across the country. Our original goals were to satisfy the needs of serious mountaineers for active use in cold weather. The result was an innovative and functionally efficient parka with great loft, flexibility and durability, which, surprisingly, attracted a large segment of the general public as well as the mountaineering community. Now as common a sight around town or campus as in the mountains, the ULTIMATE's appeal is due to its unique combination of performance-oriented features and trim-fitting good looks. The ULTIMATE is special among sewn-through down parkas because the individual compartments are stitched first, then filled section by section with premeasured amounts of down. Although considerably more time-consuming than the conventional "fill first, stitch last" method, the ULTIMATE's precision stitching and filling assure even loft and perfect seam alignment. To prevent the usual shoulder cold spot, the ULTIMATE features our exclusive knit-baffled shoulder wall—a difficult sewing technique which allows substantial shoulder loft while stopping down from shifting from front to back. Another innovative touch is Snow Lion's non-snap-through throat snaps (the metal does not penetrate the collar and touch the skin). Still another advanced design is the ULTIMATE's "extended fabric snap system" for hood attachment, which makes the simple "cold snap through the collar" method obsolete. The ULTIMATE also features two large down-filled cargo pockets with 5" Velcro® closures and our exclusive "no-loss" flaps, hand warmer pockets, two inner storage pockets, two-way #5 Vislon zipper with snap down draft flap, 1.9 oz. ripstop nylon throughout, average downfill of 12 ounces, 4" down-filled collar, elastic and snap closures at the wrists, nylon drawcord at the waist, and a stuff sack with cordlock. All inner armhole and sleeve joinings are both Overlock Stitched and tape-capped for extra strength. Finally, in positive response to the many letters and calls citing our industry's sexist sizing policies, we are happy to announce that the 1976 ULTIMATE is available in women's sizes.

Average Weight: 29 oz.

Available in Midnight Blue, Royal Blue, Spruce Green or Cherry Red Ripstop and Dark Blue or Raspberry Taffeta.

Women: XS(8), S(10), M(12), L(14) **\$49.50**

Men: S, M, L, XL **\$54.50**



A. The ULTIMATE features down-filled handwarmer pockets and cargo pockets with our exclusive "no loss" flaps. The pocket flap is sealed by 5" Velcro® strips.

B. Baffled like a sleeping bag, the ULTIMATE HOOD has no sewn-through spots. It attaches via our "extended fabric snap system" which eliminates the cold neck snaps of conventional construction. **\$9.50**

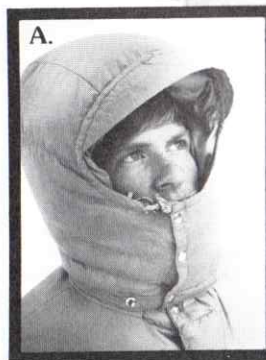
Bering Parka

The development and production of the BERING PARKA represents one of the few major breakthroughs in the mountaineering industry in a decade. During final testing on the Bering Glacier in the winter of 1974/75, the BERING PARKA proved itself to be the lightest, bona fide sub-zero parka manufactured anywhere in the world. We created the BERING to fill the tremendous void between existing sewn-through and expedition parkas. The BERING is a completely baffled parka, much warmer than sewn-through, yet not as limited in use as expedition parkas. Unlike cumbersome, loft restrictive double quilted parkas, the usual step up from sewn through garments, the BERING is a free lofting parka, baffled in sleeping bag style slant wall construction. This considerably lighter weight construction is more difficult and time consuming to sew than double quilting, but its much greater loft-to-weight ratio makes it well worth the effort: 5" of total loft is produced with an average of 16 oz. of down fill and total weight of 35 oz. Because the BERING is filled section by section like a sleeping bag, the loft and insulation are uniform. The shoulders, neck, and sleeves as well as the body are fully baffled. The zipper and snaps for the down-filled weather extension are attached to the nylon shell; they are not sewn or snapped through the down insulation. Further, an extra measure of down and loft has been added to the crucial shoulder-neck area. Features include 1.9 oz. ripstop nylon throughout, snag resistant "tuck stitching," 2-way Vislon zipper with down-filled draft flap and snap closures, two down-filled pockets with our exclusive "no loss flap" and Velcro® closures, two down-filled hand warmer pockets, two interior cargo pockets, large downfilled collar with snap fasteners which do not touch the neck, elastic and snap wrist adjustment, drawcord at waist, and our special "extended fabric snap system" for attachment of the optional hood.

Average Weight: 35 oz.
Available in Royal Blue or Rust
XS, S, M, L, XL
\$68.00

A. Baffled like a sleeping bag, the BERING HOOD has no sewn-through spots. It attaches via our "extended fabric snap system" which eliminates the cold neck snaps of conventional construction. **\$9.50**

B. To eliminate the usual cold zipper seam, the BERING's Vislon zipper is sewn to the inner ripstop lining only, and the weather flap's snap closures are attached to the outer ripstop shell.

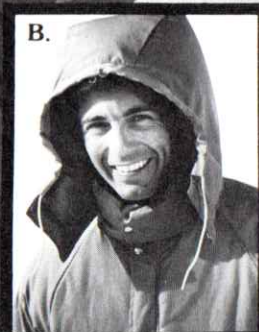
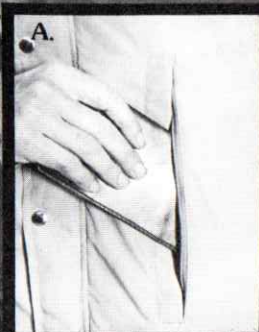


Greatcoat

In the down clothing world, the GREATCOAT has achieved an enviable reputation for ruggedness, luxury and design. It is a beautiful three-layer garment tailored to afford warmth and comfort in high winds and at sub-zero temperatures. As the name implies, this parka/coat is cut large enough to easily accommodate bulky shirts or sweaters when desired. It is the ideal coat for all-around winter use. Although the thigh length GREATCOAT is one of the most rugged down-filled articles produced anywhere, the 1976 edition is also one of the nicest looking. Three attractive color schemes have been selected to take some of the meanness out of this cold fighter. The outer shell is a wind-tight, water-repellent blend of medium firm 65%/35% polyester/cotton. This special two-ply fabric is made especially for the GREATCOAT and cannot be found on any other garment in existence. It is sewn at the outer seams to a substantial down-filled quilt lined with stylishly contrasting 1.9 oz. ripstop nylon. For maximum mobility, the shoulders have been cut in a wide angle raglan pattern. Seven pockets are standard: two large 9" x 11" gusseted cargo pockets with "no loss" flaps and 5" Velcro[®] closures, two down-filled handwarmer pockets, a vertical breast pocket with a covered Ziylon coil zipper, and two interior storage pockets. Like other Snow Lion down garments, the individual compartments are stitched first, then filled section by section with premeasured amounts of down. In addition, a two way, #5 Vislon zipper with snap-down weather flap, a gusseted 5" Velcro[®] closure for wrist adjustment, a 4½" down-filled collar with non-snap-through throat snap, a nylon drawcord at the waist, and our unique "extended fabric snap system" for hood attachment are also standard features. Average downfill is 13 ounces.

Average Weight: 42 oz.
Available in Dark Blue, Rust or Tan
XS, S, M, L, XL

\$73.00



A. The GREATCOAT's vertical breast pocket is a quick access storage pouch for maps, notebooks, water flasks, etc. A # 7 Ziylon coil zipper with weather flap seals the 9" opening.

B. The three-layer GREATCOAT HOOD features a 4½" face protector, snap and drawcord adjustment, and our "extended fabric snap system" for attachment without cold spots. **\$12.00**

Supervest

Die-hard vestites have asked for something more than the simple, traditional vest with exposed zippers and flimsy pockets. While most down vests offer either snap or zipper closures, the SUPER VEST provides both: a down-filled draft flap snap closes over a two-way #5 Vislon zipper. Thus the option is open to use the zipper, the snaps or both. Another SUPER VEST advantage is its six pockets: two outer down-filled pockets with our exclusive "no loss" flaps and Velcro® closures, two handwarmer pockets and two interior storage pockets. In addition, to insure a good fit, each SUPER VEST is equipped with elastic expansion panels sewn into the side sections. Like the ULTIMATE PARKA, the SUPER VEST is stitched first and filled section by section. It even has our exclusive knit baffled shoulder wall. Other features include 3" high down-filled collar with non-snap-through throat snaps, 1.9 oz. ripstop nylon, 6½ ounces average downfill, 3" rear extension, reinforcements at all stress points, and stuff sack with cordlock.

Average Weight: 15 oz.

Available in Midnight Blue, Royal Blue, Spruce Green, or Cherry Red.
XS, S, M, L, XL

\$31.50

Bering Vest

An exciting new entry for 1976, the BERING VEST is a fully baffled, sleeveless parka. It has been created for those "won't settle for less" outdoorspersons who demand maximum body warmth, minimum weight, and arm flexibility. The construction concept is patterned after the BERING PARKA: sleeping bag style slant wall baffling throughout. Even the zipper and snap flaps are baffled. There are absolutely no sewn-through spots. Like all our down garments, this new vest is stitched first, then filled section by section with premeasured amounts of down. We believe that the BERING VEST is the warmest lightweight vest ever offered to the backpacking/mountaineering public. Other features include snag-resistant "tuck-stitching" along all baffle seams, two outer down-filled pockets with our exclusive "no-loss" flaps and Velcro® closures, two hand warmer pockets, two interior storage pockets, elastic expansion panels sewn into each side, 1.9 oz. ripstop nylon, 8½ ounces average downfill, 3" rear extension, reinforcements at all stress points, and stuff sack with cordlock.

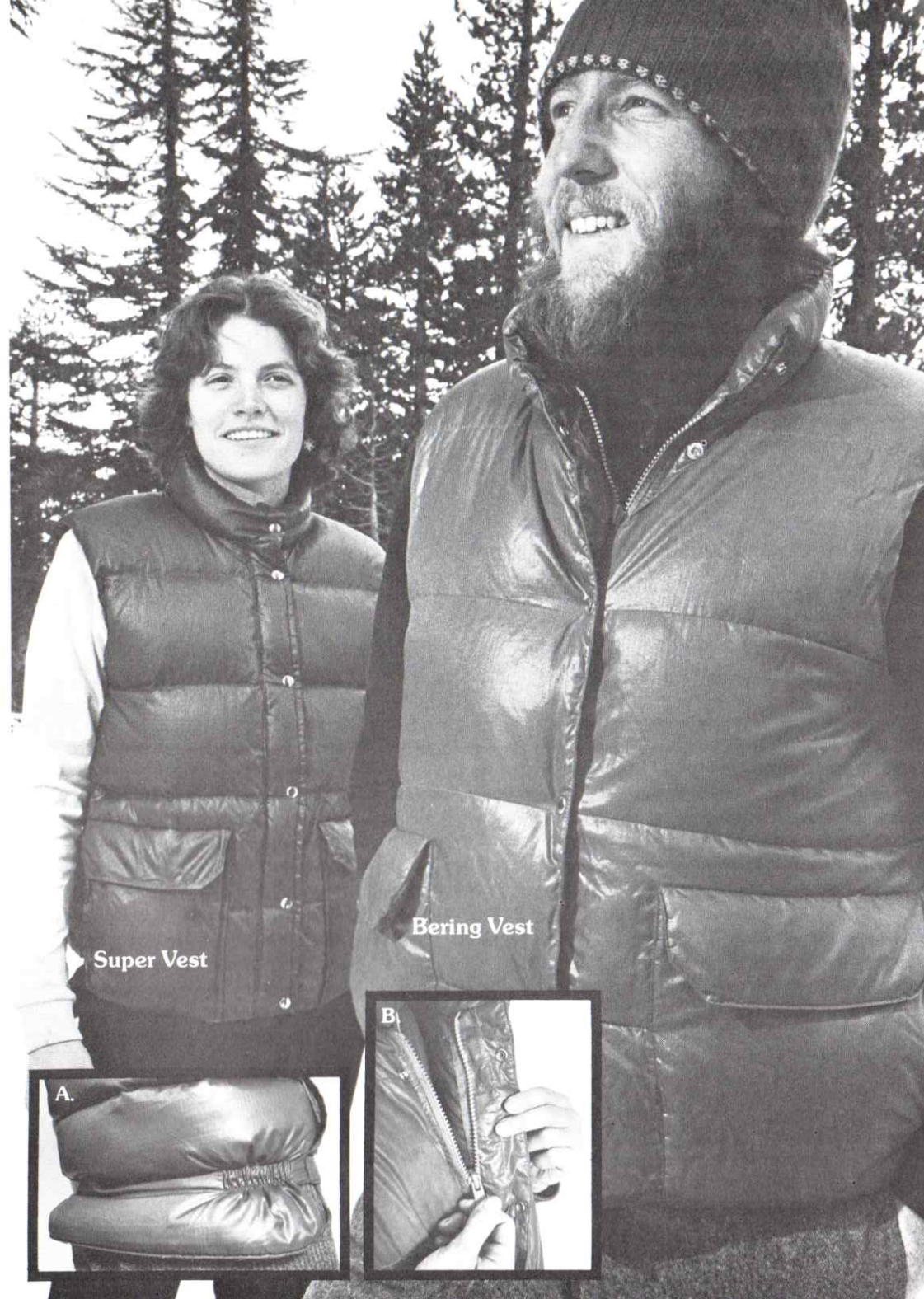
Average Weight: 19 oz.

Available in Royal Blue or Cherry Red
XS, S, M, L, XL

\$38.50

A. Both the SUPER VEST and the BERING VEST feature elastic side panels.

B. To eliminate the usual cold zipper seam, the BERING VEST's Vislon zipper is sewn to the inner ripstop lining only.



Super Vest

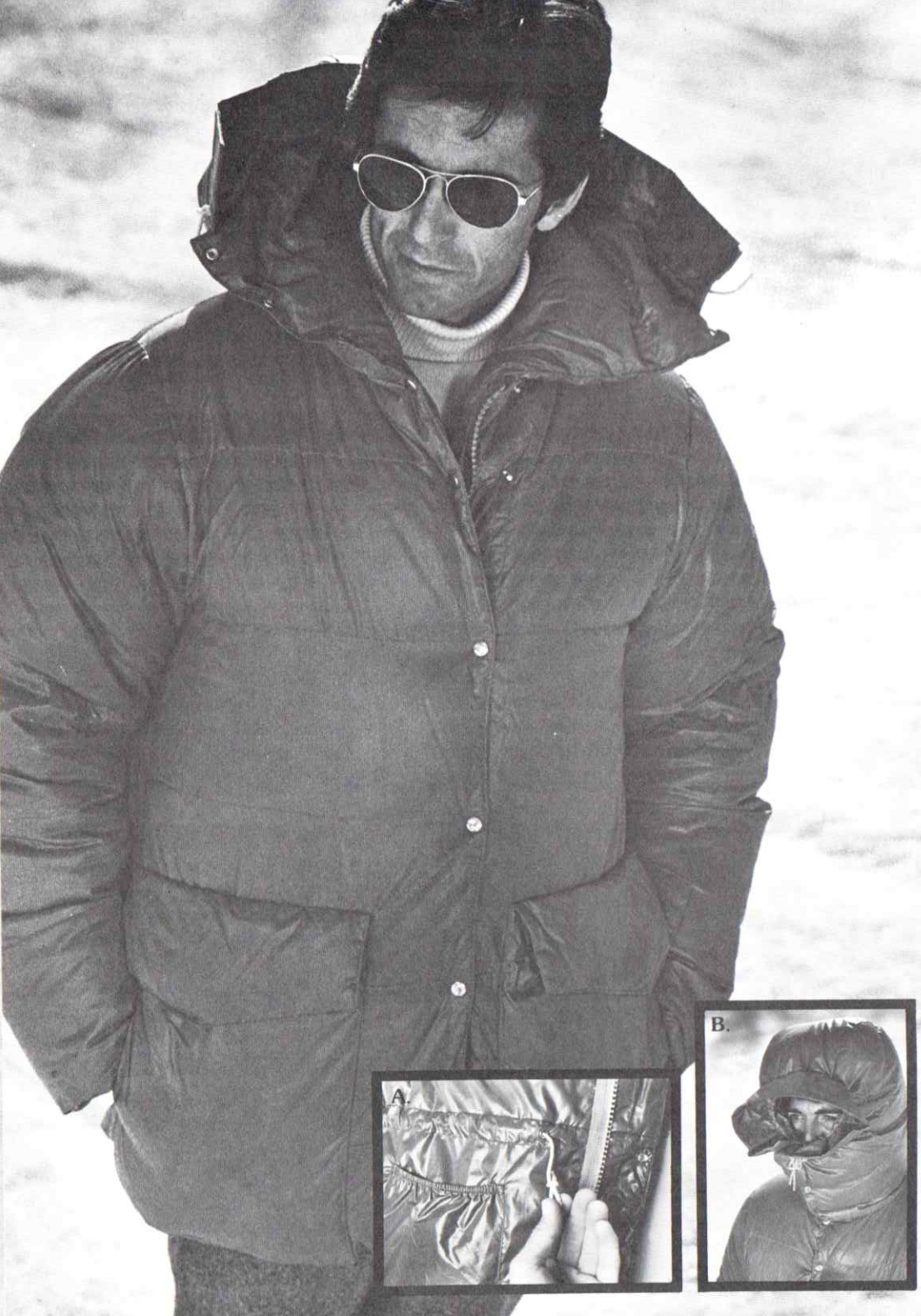
Bering Vest



Expedition Parka

There are times and places to wear the monstrous parka described below, but they are few and far between. The baffled **BERING PARKA** is an outgrowth of our decision to revolutionize the design of our old **EXPEDITION PARKA**, thereby creating the best sub-zero parka in the world. The fruit of our rebuilding efforts is a veritable walking sleeping bag, a very specialized parka intended for prolonged use at high altitudes and under extreme cold conditions. It is one of the few garments ever made to offer "V" tube sleeping bag construction throughout. A new baffle wall angles off at 60° every 3" on the vertical plane. An incredible network of triangular chambers is formed — sixty-six compartments must be filled and closed separately. The **EXPEDITION** has absolutely no sewn through seams or cold spots. The 1976 model is insulated with an average down-fill of 25 ounces producing an awesome 7"-8" of total loft; the resulting heat retention index is phenomenal. Enhancing this insulation system is a fully baffled and oversized integral hood with a pellow-stiffened tunnel visor. The down-filled face protector is 8" high and is adjusted by three snaps and a nylon drawcord. To prevent heat loss at the wrists, wool wristlets have been sewn inside the cuffs. Because the **EXPEDITION** is designed to provide mobility at low temperatures, it is cut long and full with plenty of room for multiple layers of inner garments. To reduce the chance of snagging, the 1976 version is "tuck stitched" along all baffle seams. Other features include a two-way #10 Vislon zipper with a 4" non-sewn-through down-filled overlap which attaches to non-snap-through snaps, two giant outer pockets with cargo holds, Velcro® closures, no-loss flaps, down-filled handwarmer pockets, two inner storage pockets, drawcords at the waist and bottom hem, an elastic crotch strap and a stuff sack with cordlock.

Average Weight: 3 lbs. 3 oz.
Available in Midnight Blue or Cherry Red
XS, S, M, L, XL
\$98.00



A. Two inside storage pockets with elastic closures and an adjustable nylon drawcord at the waist are located inside each **EXPEDITION DOWN PARKA**.

B. The **EXPEDITION PARKA** features a large integral hood which is baffled like a sleeping bag and features a built-in tunnel visor with drawcord and non-snap-through face snaps.

Polarguard® Clothing



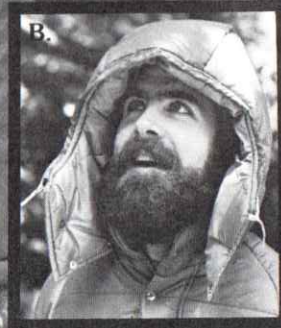
Palisade Parka

The PALISADE is the definitive Polarguard parka, a design and quality standard for other polyester garments. Each year it is further refined and improved. This year's PALISADE is no exception. It is a trim, double quilted Polarguard parka intended to be attractive around town as well as warm and functional in the mountains. The continuous filament Polarguard makes it resilient, long-lasting, machine washable, and much easier to take care of than down or other fiberfill garments. If the outer fabric tears or punctures, the Polarguard will stay in place and continue to provide effective insulation. And, like all our Polarguard products, the PALISADE will maintain its protection when damp, wet or icy. The PALISADE's Offset Double Quilt construction makes it warmer than traditional sewn-through parkas, and its tailored cut gives it a better fit and makes it far less bulky than standard synthetic garments. So that you won't forget a PALISADE when you see one, the inner linings are made of colorfully contrasting ripstop nylon. Other features include a two-way, #5 Vislon zipper with a snap down Polarguard filled weather flap, two outside Polarguard-filled cargo/hand warmer pockets with Velcro® closures, snap and elastic wrist adjustments, a 4" Polarguard-filled collar with snap closure, a drawcord at the waist, our "extended fabric snap system" for attachment of the optional hood, and a stuff sack with cordlock. Holding all this together is a reinforcement technique in which every quilted PALISADE part (sleeve, pocket, body, etc.) is individually cut and Overlock Stitched before being sewn together. The result is a comfortable parka which is as tough as it is good looking.

Average Weight: 30 oz.
Available in Midnight Blue, Rust or Spruce Green
XS, S, M, L, XL
\$47.50

A. Wrist tension on the PALISADE can be controlled through a sewn-in elastic strap and a snap closure. Ideally, the unsnapped sleeve should extend 3" - 4" beyond the wrist.

B. The PALISADE HOOD offers Offset Double Quilt construction throughout. Features include 7" high face protector, snap and drawcord closures, and our "extended fabric snap system" for hood attachment. **\$9.50**



Thunder Bay Parka

The double-quilted THUNDER BAY PARKA offers a tough new dimension to the Polarguard garment scene. Although it is cut along the same trim lines as the PALISADE, the THUNDER BAY's rugged, 65%/35% polyester/cotton outer shell makes it a much more abuseable garment. The quilted 65/35 is a specially blended fabric with superior water-repellent and abrasion-resistant qualities. It is attached to an inner quilt lined with medium-hand ripstop nylon. The continuous filament Polarguard enhances its overall durability; it is more resilient, long-lasting, machine washable, and much easier to take care of than down or other fiberfill garments. And, like all our Polarguard products, the THUNDER BAY will maintain its protective insulation when damp, wet or icy. Other features include a two-way, #5 Vislon zipper with a snap-down Polarguard filled weather flap, two outside Polarguard filled cargo/handwarmer pockets with Velcro® closures, snap and elastic wrist adjustments, a 4" Polarguard-filled collar with snap closure, a drawcord at the waist, our "extended fabric snap system" for attachment of the optional hood, and a stuff sack with cordlock. Every quilted section (sleeve, pocket, body, etc.) of the hardy THUNDER BAY is individually cut, Overlock Stitched, and reinforced before being joined to an adjacent section. Because it is intended for the avid outdoors-person who will give it maximum use and minimal care, we feel the THUNDER BAY is the toughest parka available anywhere.

Average Total Weight: 36 oz.
Available in Midnight Blue, Rust or Forest Green
XS, S, M, L, XL
\$52.50

A. The THUNDER BAY HOOD features two layers of double quilted Polarguard with a 65/35 outer shell and a ripstop lining, a 7" face protector, snap and drawcord closures and our "extended fabric" attachment system **\$10.50**

B. The THUNDER BAY's Vislon zipper is covered by a snap down Polarguard filled weather flap.



New Rocky Mountain Parka

The 1976 ROCKY MOUNTAIN PARKA has undergone a unique transformation. We've added a scalloped western-style shoulder yoke of two-ply nylon taffeta, we've replaced the snaps at the wrist with adjustable Velcro® closures, and we've sewn-in our new hexagon pocket flaps with hidden Velcro® strips. The redesigned ROCKY just might be the best looking piece of clothing on the outdoor market. Backing up its exciting appearance is a mixture of high quality materials and top-notch construction. An outer layer of wind-tight, water-repellent 65%/35% polyester/cotton makes the ROCKY an "all terrain" parka, perfect for the hard and constant user with a "haven't got time for maintenance" attitude. This superior blended fabric is treated with a tough protective finish and is made specially for Snow Lion. The waterproof shoulder yoke extends to cover the upper back and collar. Beneath the outer shell is a thick layer of 10 oz. Polarguard quilted to a colorfully contrasting lining of ripstop nylon. When wearing the ROCKY MOUNTAIN, the suggested fit allows good arm flexibility and just enough inside room for a heavy shirt or sweater. Standard features include two Polarguard-filled cargo/hand warmer pockets, a two-way #5 Vislon zipper with a snap down weather flap, a 3" Polarguard-filled collar, our extended fabric system for attachment of the optional hood, and a nylon drawcord at the waist. Like the PALISADE every part (sleeve, pocket, body, etc.) of the ROCKY MOUNTAIN is individually cut and Overlock Stitched before being sewn together. All stress points are bartack reinforced. Add all these features together and the finished parka is nothing less than dynamite. Just about everyone who tries on this "one of a kind" parka wants to own one. Try on a ROCKY MOUNTAIN and test your will power!

Average Total Weight: 39 oz.
Available in Midnight Blue, Rust or Forest Green
(Taffeta Yoke in Assorted Colors)
XS, S, M, L, XL
\$57.50

B.



A. The ROCKY MOUNTAIN's most distinctive feature is its scalloped shoulder yoke. The yoke's two-ply nylon taffeta is Super Klay-Koted for waterproofness.

B. The ROCKY MOUNTAIN HOOD's waterproof outer shell is unique among insulated headwear. The inside is a quilted layer of Polarguard and ripstop nylon; the outer cover is Super Klay-Koted nylon taffeta. **\$9.50**

A.



Yosemite Vest

"Kick the hell out of it and it still stays in one piece. Drench it, wring it out, and it's immediately useable. This thing really hangs tough!" The preceding, from a YOSEMITE owner, is typical of the comments we receive about this garment. It is a double quilted vest made with two offset layers of Polarguard quilted to 1.9 oz. ripstop nylon. This double layer construction makes it considerably warmer than sewn-through vests and makes it perfect for use over a long sleeve shirt as well as under a light shell or insulated parka. It features two Polarguard-filled hand warmer pockets, #5 Vislon zipper, a 3" Polarguard filled-collar, and a rear kidney extension. All inside pieces are joined by Overlock Stitching and all stress points are bar tack reinforced. Although used extensively as an undergarment in cold weather expeditions and as an outer for drippy-walled climbing, most YOSEMITE owners are everyday backpackers and skiers.

Average Total Weight: 14 oz.
Available in Royal Blue, Spruce Green, or Tan
XS, S, M, L, XL

\$24.50

Teton Vest

The TETON is a rugged, good looking vest with one thick layer of 10 oz. Polarguard quilted to a ripstop nylon inner lining and covered by 65/35 cloth. This fabric is a wind-tight, water-repellent blend of 65%/35% polyester/cotton, specially woven for Snow Lion by one of the premier makers of durable outdoor materials. Other features include a #5 Vislon zipper covered by a snap-down weather flap, two Polarguard-filled hand warmer pockets, a 3" Polarguard-filled collar, and a rear kidney extension. All inside pieces are joined by Overlock Stitching and all stress points are bar tack reinforced. The fabric combinations and contrasts make the versatile TETON as wildly attractive as it is durable and dependable. We call the TETON the "stay warm, stay dry, stay tough" vest.

Average Total Weight: 18 oz.
Available in Midnight Blue, Rust and Forest Green
XS, S, M, L, XL

\$29.50

A. Both the YOSEMITE and TETON VEST's feature insulated rear extensions to protect the kidneys and prevent wind from entering through the back.

B. Double quilted handwarmer pockets are standard on each YOSEMITE and TETON VEST.



Yosemite Vest

Teton Vest



Expedition Overparka

This garment was specially developed for several major American expeditions during the winter of 1974/75. Since expedition members raved about its durability and performance, we decided to make the OVERPARKA available to the general public. It is generously sized to fit comfortably over lighter parkas, vests and shirts. The construction is Offset Double Quilt everywhere: body, sleeves and hood. Although it is our thickest Polarguard garment, it is by no means "too thick." When combined with other layers of clothing, a degree of versatility not found in "super thick" parkas is created. Its existence obviously supports the layered insulation principal. Special attributes are a large integral hood with nylon drawcord and snap closures, inset wool wristlets, and a two-way, #10 Vislon zipper with snap down weather flap. Standard features include two outer cargo pockets with Velcro® closures, hand warmer pockets, nylon drawcords at waist, thigh, and hood and a waterproof stuff sack.

Average Total Weight: 2 lbs. 12 oz.

Available in Midnight Blue or Rust

S, M, L, XL

\$75.00

Polarguard Pants

Our high back POLARGUARD PANTS are composed of one quilted layer of ripstop nylon and Polarguard attached to an outer shell of 2.2 oz. water-repellent nylon taffeta. The cut is extra long and roomy to provide maximum bend and flexibility. #5 Vislon zippers extend up the inside length of both legs so that the zippers may be paired to form a half sack. The zippers open from the bottom as well as the top to coordinate with boots and/or crampons. Each leg zipper is backed by a Polarguard-filled draft flap. The PANTS also feature a fly zipper, covered by a snap down weather flap. Patch pockets with Velcro® closures are sewn to the front thigh of each leg. Numerous prototypes of these PANTS were tested on snow and ice before the present version took form.

Average Total Weight: 1 lb. 8 oz.

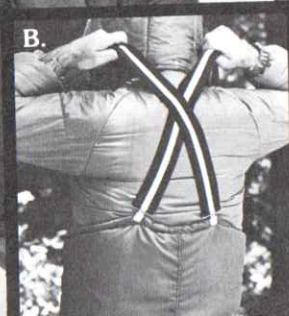
Available in Orange

S, M, L, XL

\$45.00

A. The EXPEDITION OVERPARKA is generously cut to accommodate layers of inner garments when necessary.

B. The "high back" on our POLARGUARD PANTS extends well above the waist to protect the kidneys and lower back. (Suspenders are not supplied.)



Polarguard Mitts

Protection of the hands is critical to anyone who plans to spend time in cold or wet-cold conditions. Unlike down, which quickly absorbs moisture and becomes non-functional, Polarguard maintains insulation when wet and keeps the hands warm and dry. Our MITTS average 13" in length, covering the hand as well as the forearm. The entire palm side of each mitt is covered with rugged 11 oz. waterproof Cordura. The back side covering is 4 oz. oxford nylon, breathable and water-repellent. Both sides are insulated with a single layer of 10 oz. Polarguard. The inner lining is 1.9 oz. ripstop nylon. Wristlets are sewn inside each mitt to help retain warmth and prevent snow from creeping in. The fit is controlled by a strip of $\frac{3}{4}$ " nylon webbing and an easy-to-adjust buckle located at the outer wrist.

Available in Assorted Colors
S, M, L **\$15.50**

The EXPEDITION POLARGUARD MITTS are similar to our standard mitts with the addition of an extra layer of Polarguard sewn on the back side and sewn-in 6" gauntlet of breathable, water-repellent oxford nylon with a second webbing and buckle adjustment at the elbow end of each mitt.

Available in Assorted Colors
S, M, L **\$19.00**

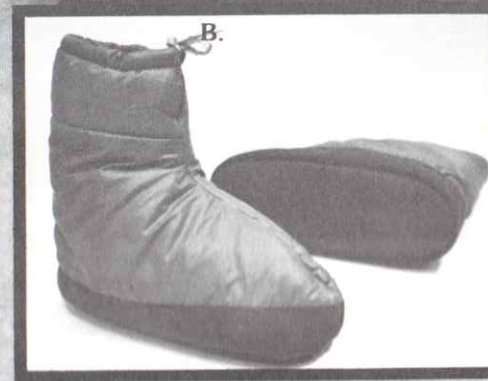
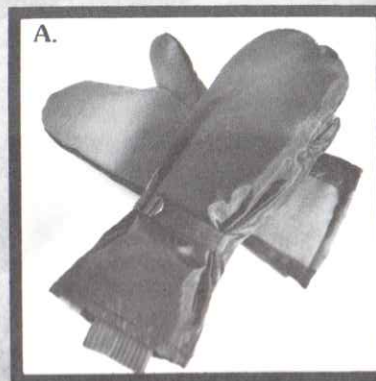
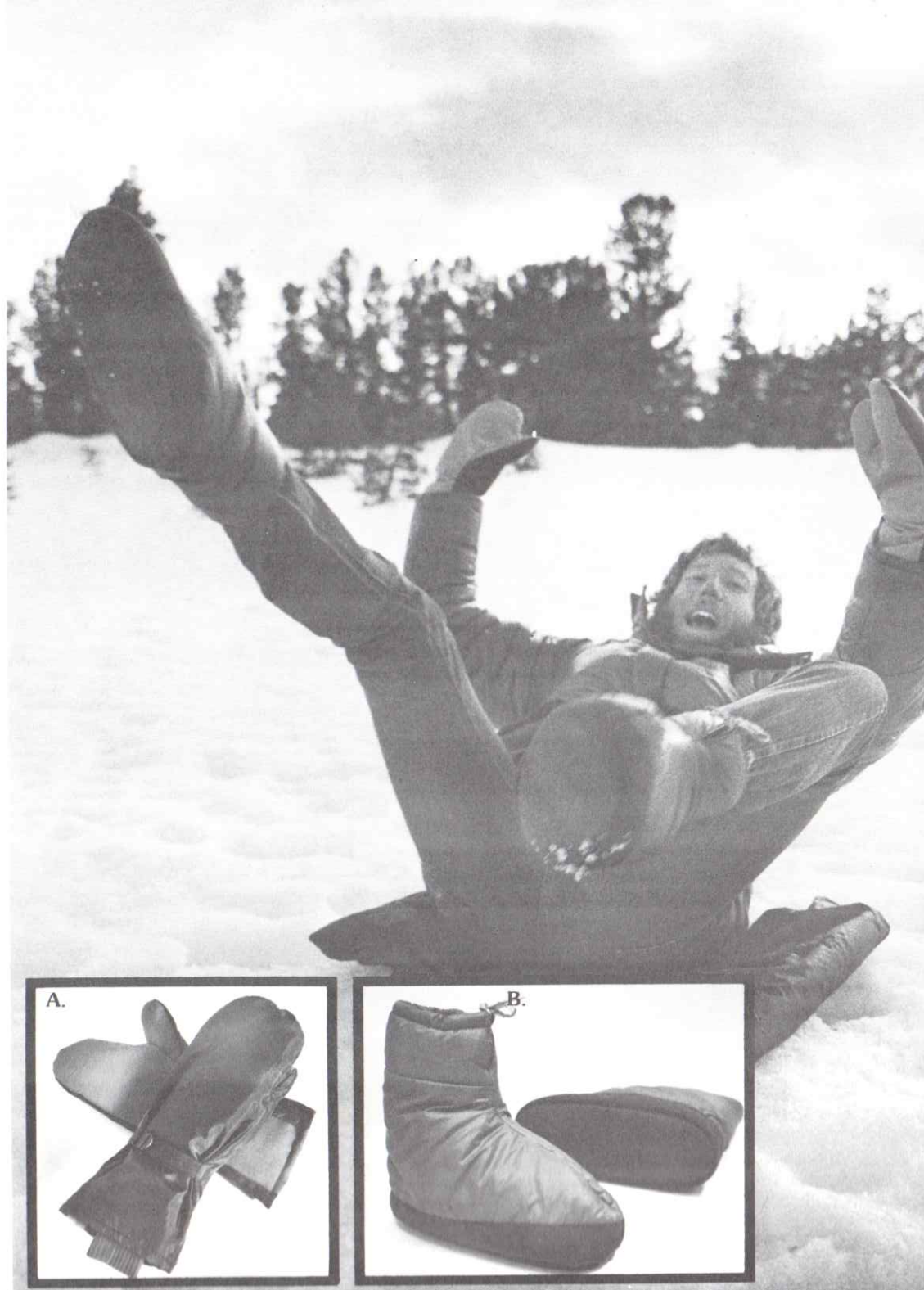
Booties

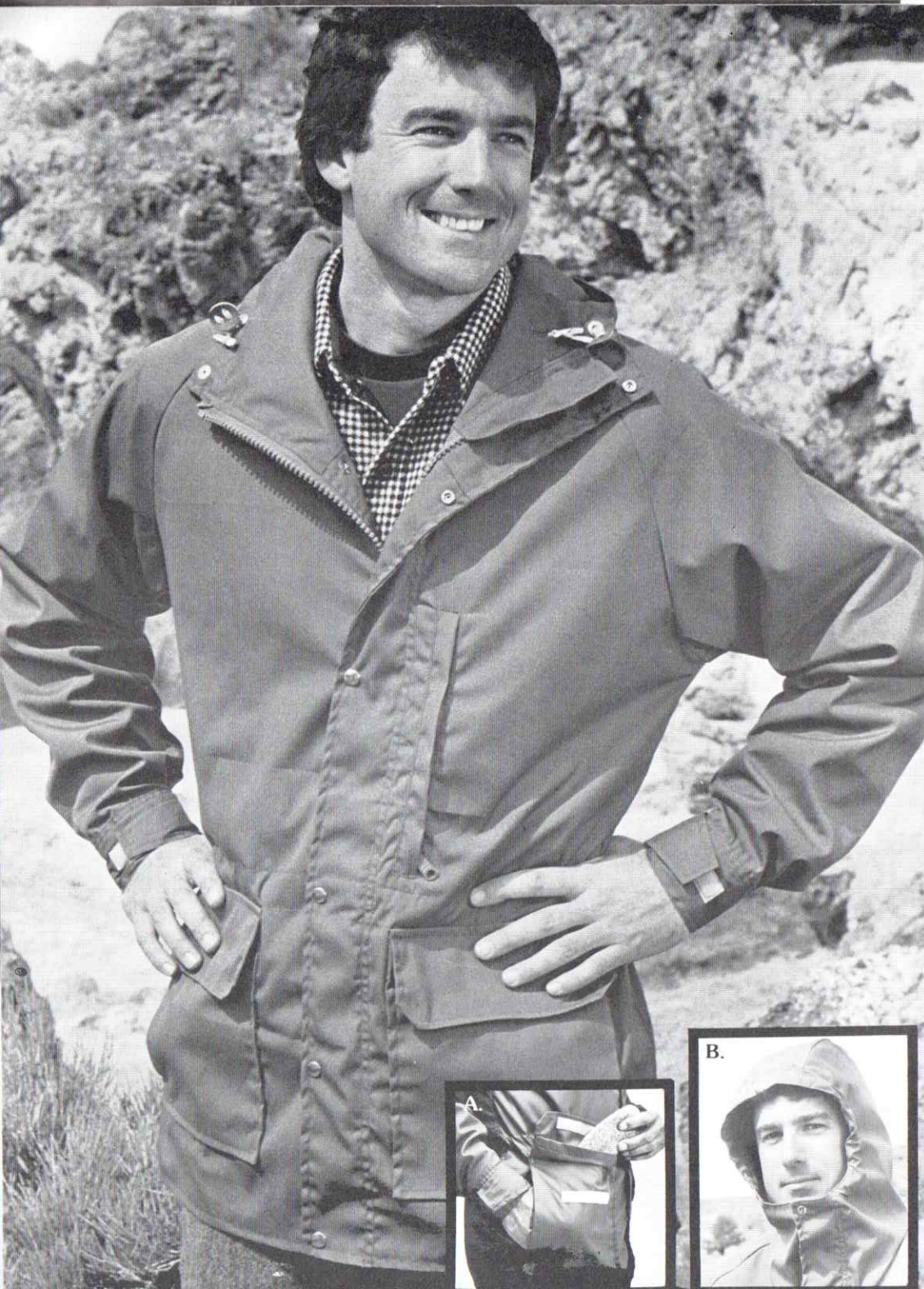
Booties are great for keeping feet warm on cold nights around camp or chilly evenings at home. Unfortunately, conventional down booties offer almost no foot support, are difficult to walk in, and become useless when wet. Our POLARGUARD BOOTIES provide a realistic alternative, for they have been designed to provide insulation and walkability as well as warmth and comfort. They are 10" high with double layer Polarguard uppers. The sole is 11.5 oz. waterproof Cordura, backed by a 1½" ensolite pad, and topped with a nylon covered layer of Polarguard. The Cordura extends 1½" up the sides from the sole for added stability. The inner and outer shells are 1.9 oz. ripstop nylon. Elastic extends across ankle and instep to hold the foot in place when walking. A drawcord is located at the top.

Available in Assorted Colors
XS, S, M, L, XL **\$16.50**

A. Our POLARGUARD MITTS are equipped with elasticized wristlets to keep the snow out and adjustable nylon webbing to guarantee a proper fit.

B. One of the keys to the success of our POLARGUARD BOOTIES is the 11 oz. Cordura soles.



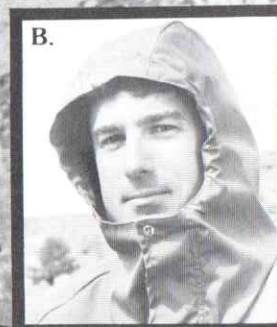


Mountain Parka

In developing this parka, we took a hard look at the state of the art in the design and production of shell garments currently on the market. While a number of cosmetically attractive lightweight shells seemed to predominate, the consensus of opinion indicated a widespread desire for a super tough, multi-purpose double layer parka. Our response is the introduction of the MOUNTAIN PARKA, a doubly rugged 65/35 parka with the emphasis on durability, function, and fit. The outer shell is a wind-tight blend of 65%/35% water-repellent polyester/cotton, specially woven for Snow Lion by one of the world's premier makers of durable outdoor fabrics. The inner lining is the same fabric. But unlike most shell garments, the 65/35 lining covers the entire parka—sleeves, body and hood. This full, double lining not only makes the parka warmer and more water and wind repellent, but also adds a measure of toughness not found in lighter, partially lined shells. The cut is a thigh-length, tailored raglan, carefully sized to fit well with or without bulky undergarments. For optimum flexibility, the wrist is adjusted by generous Velcro® tabs and sewn-in triangular gussets. Two lower cargo pockets feature "no-loss" flaps, Velcro® closures, and hand-warmer pockets. In addition, a #7 Ziplon coil zipper closes both the vertical chest and spacious rear pockets. The front zipper is a two-way, #10 Vislon, covered by a large, double layer, snap-down weather flap. An inside 65/35 flap prevents the zipper from touching the throat. The large integral hood is roomy enough to accommodate a wool cap and includes an adjustment system which is controlled via a nylon drawcord with leather slide fasteners. Another drawcord with leather slide fasteners controls tension at the waist. Notwithstanding all these features, the MOUNTAIN PARKA's greatest asset is its unsurpassed level of sewing detail: the sleeve and side seams are folded and double-needled; all other pieces are Overlock Stitched; all stress points are bar tack reinforced. The resulting combination of materials, design and workmanship makes this parka one of the truly outstanding values in the mountaineering world.

Average Weight: 32 oz.
Available in Midnight Blue, Rust or Forest Green
XS, S, M, L, XL

\$46.00



A. The "outer pocket system" on the MOUNTAIN PARKA features two large cargo pockets with "no loss" flaps and 5" Velcro® closures as well as easy-to-reach handwarmer pockets.

B. The MOUNTAIN PARKA's hood features a large face opening, which can be adjusted by nylon drawcords and leather sliders. For durability and water-repellency, the construction is double-layer 65/35 cloth.

Western Mountain Parka

When we designed this parka, our goal was to construct the finest multi-use shell garment anywhere. After consulting our nationwide network of mountaineering shops and after putting together and testing numerous prototypes, we finally began manufacturing a unique, highly versatile garment, which we later dubbed the WESTERN MOUNTAIN PARKA. For the base exterior fabric, we asked one of the world's premier makers of durable outdoor fabrics to make a wind-tight, water-repellent blend of 65%/35% polyester/cotton specially for us. To improve on the all-weather capability of the parka, the shoulders, hood, upper back and upper chest are covered with a scalloped "western style" yoke of waterproof, double ply, Super Klay-Kote nylon taffeta. The interior is lined with two fabrics. The inside upper body, hood, and shoulders are lined with 100% Ventile cotton. This highly regarded cotton fabric is world famous for its durable and tightly woven hand as well as its breatheability and proven weather resistance. The inside lower body and sleeves are lined with the same blended polyester/cotton as the outer shell. To the outside we have sewn in six pockets: two lower cargo pockets with "no-loss" flaps and 5" Velcro® closures, two handwarmer pockets, and vertical chest and rear pockets with #7 Ziplon coil zippers. The front zipper is a two-way, #10 Vislon, covered by a large, double-layer, snap-down weather flap; an inside 65/35 flap prevents the zipper from touching the throat. Like the MOUNTAIN PARKA, the WESTERN features a large integral hood which is adjusted through a nylon drawcord with leather slide fasteners. Another drawcord with leather slide fasteners controls the tension at the waist. Wrist ventilation is adjusted by Velcro® tabs and sewn-in triangular gussets. The cut is a tailored raglan, sized to look and fit well with or without bulky undergarments. Double needled sleeve and side seams, bar tacked stress points, and Overlock Stitched interior piecing are standard.

Average Weight: 34 oz.

Available in Midnight Blue, Rust or Forest Green.

(Taffeta Yoke in Assorted Colors)

XS, S, M, L, XL

\$56.00

A. Like its scalloped yoke, the WESTERN MOUNTAIN's integral hood features an outer layer of two-ply, water-proof nylon taffeta and a Ventile cotton lining. Drawcords and leather sliders control the face opening.

B. The cargo pocket on the back of the WESTERN MOUNTAIN PARKA is perfect for holding shirts, sweaters, maps, etc. A # 7 Ziplon coil zipper seals the 9" opening.



A photograph of two tents pitched in a snowy mountain landscape. The tent on the left is a red and blue tarp tent with a circular opening. The tent on the right is a green and black A-frame tent. In the background, there are snow-covered mountains and a line of evergreen trees. The word "Shelters" is printed in a bold, black, serif font in the lower-left area of the image.

Shelters

Tent Design and Construction

It is one thing to weather a mild rain shower or a windy summer's night. It is quite another to endure the ferocity of a severe winter storm. It is not unusual for high altitude mountaineers to find themselves forced into unwanted and unexpected confinement while the heavens unleash and expend the seemingly endless outpouring of wind and snow for which they are famous. It is to surmount these unwanted and unexpected instances that Snow Lion mountaineering tents have been designed and built.

Inherent in the construction of each tent is the assumption that it will be subjected to the pounding and battering of gale force winds as well as the brutality of alpine storms. For that reason we have developed unique, wind stable designs and meticulous reinforcement systems. The TRIPLEX and the MOUNTAIN feature both the proven stability of A-frames and the roominess of semi-domes. The option of adding our technically advanced SNOW MODULES gives these tents a measure of performance versatility unmatched in the mountaineering industry. Further, each tent is sewn and reinforced to the limits of our ability. Combine the design and workmanship with our enthusiastic and innovative spirit, and the end products are the most functional alpine tents in the world.

STABILITY AND SPACE

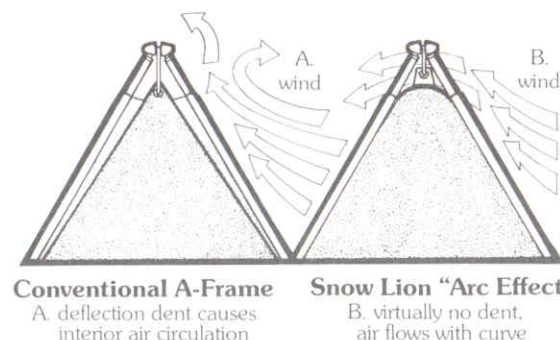
A radical assortment of new concepts has been formulated in recent years to meet the increased demand for quality mountaineering tents. But in the world of high altitude tents, stability is the first consideration and the time-tested, low profile, A-Frame has

withstood the challenges of other design variations. However these tents are often criticized for lack of room. The triangular space along the inside ridge is virtually non-functional, and the sidewalls are necessarily steep to prevent snow loading. Proponents of the decidedly less stable dome and semi-dome tents have been quick to emphasize effective use of sidewall and ceiling space. Anyone who has spent even a few days tent-locked, waiting for a snow storm to subside, will readily attest that space is critical in the inevitable fight against boredom and anti-sociality. Headroom and general roominess are the second consideration when evaluating a tent which may be used in high altitude or winter conditions. The TRIPLEX and MOUNTAIN represent our attempt to do something which has never been done before, that is, to combine stability and space in one tent.

THE ARC EFFECT

A combined "stability and space design" has finally been achieved through the creation of our unique *Arc Effect*. This unprecedented technique improves the traditional A-Frame concept by replacing the pointed, canopy-ridge with a curved strip of nylon, which runs the length of the tent. The *Arc Effect* is created when leather inserts, sewn into the ridge near the apex of the poles, absorb tension along the ridge and form a slight arc. This complex technique involves special catenary patterns and labor intensive sewing procedures. However, the *Arc Effect* has four major advantages over standard A-Frame designs, making the extra production time well worth the effort.

First, the most obvious advantage is the substan-



tially increased headroom. The *Arc Effect* actually makes it possible to conduct routine activities, such as dressing, eating, cleaning, etc., without constantly rubbing against the ceiling.

Second, the curved top produces a warmer tent by increasing air flow and wind stability dynamics. As the simplified illustration indicates, the rounded canopy allows the air to flow smoothly over the tent, while the conventional triangular top deflects the air. This deflected air "dents" the canopy causing air to circulate inside the tent. Motionless air provides the greatest insulation. Thus, all other things being equal, the less disruptive air flow of the *Arc Effect* design yields a warmer tent.

Third, the *Arc Effect* creates greater floor-space-to-height ratio, while maintaining snow-load efficiency. The explanation is simple. To prevent snow from crushing the A-Frame tent, the angle of steepness for canopy walls has been fixed, give or take a few degrees, by tent makers over the years. On conventional tents, the

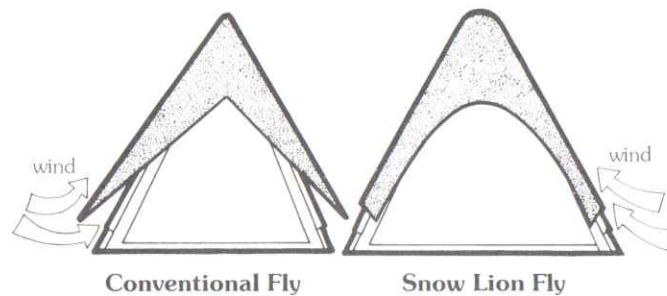
angle begins at the vertex of the triangular top. However, a vertex producing an angle of the same degree on a Snow Lion tent is located at a point above the apex of the ridge curve—where the walls would intersect if extended. Hence, when the heights of the tents and the angles of steepness are equal, Snow Lion tents have wider bases and greater floor areas than conventional tents.

Fourth, to sew-in the strip of nylon that creates the *Arc Effect*, two seams, instead of one, are positioned along the ridge. Obviously, by spreading the workload—absorbing constant stress and tension—over two, lapfolded, double stitched seams, the result is a tent top with twice the life-expectancy.

In sum, the creation of the *Arc Effect* and its improved headroom, air flow dynamics, floor space, and roof longevity represents a long awaited breakthrough in the design of high altitude mountaineering tents.

RAIN FLY

We take the manufacturing of rain flies quite seriously. Ours are built to hold up under high winds and heavy rain or snow storms. Nothing is spared in their production: all seams are lap folded and double stitched; all pullouts and grommets are reinforced. The patterns feature catenary cutting and are designed to be pulled taut and wrinkle free. In addition to greater durability, these flies offer a significant wind-resistant advantage to the total tent. Most conventional flies are made to parallel the angle of canopy steepness at a distance of 3"-8". This leaves a wide gap between the



fly and the canopy at both ends of the tent. When wind attacks from the front or rear, it enters the exposed gaps and puts disruptive pressure on the inner walls. In contrast, while our flies parallel the canopy along the length of the tent, they slant inward at the point beyond the front and rear. This leaves a smaller gap for wind penetration and, in so doing, creates a more stable tent.

FABRICS

Only the finest quality lightweight fabrics are selected for use on Snow Lion tents. All nylon materials cut for floors, canopies, and flies are specially finished to meet C.P.A.I. standards for fire retardancy. Recent developments in the nylon finishing industry enable nylon fabrics to be made fire retardant without significantly increasing the net weight.

1.9 OZ. RIPSTOP NYLON. This air-permeable fabric is used on the canopy of each tent and the upper portion of the MODULES; it is treated with a DWR (durable water-repellent) finish, which allows water vapor to pass through; its firm finish and closely woven

112 x 100 construction give it a "structural integrity" which easily accepts and releases the stress and tension of pullouts and guylines.

2.5 OZ. SUPER K-KOTE TAFFETA. This coated nylon taffeta has excellent hydrostatic resistance for maximum waterproofness. Its heavier weight and finish make it less susceptible to tears and punctures. For that reason, it is used on all floors, doors, and tunnels.

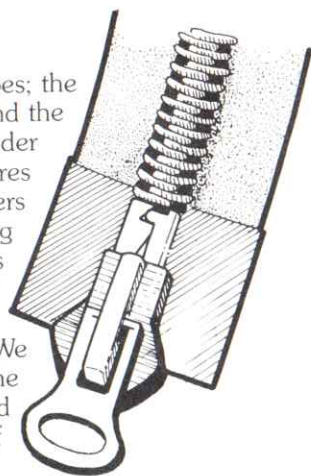
1.8 OZ. RAINGUARD TAFFETA. This fine nylon fabric is made specially for us as rain fly material. It features a light waterproof finish and an exceptionally high tear strength.

1.1 OZ. NYLON MESH. We designed this extremely resilient, multi-directional, nylon knit exclusively for our use on tent doors, windows, and vents. It is far and away the strongest insect screen we have seen.

ZIPPERS

The triangular entrances to both tents as well as the MOUNTAIN TENT's rear window flaps feature closed-end, #7 Ziploc coils. These are exceptionally smooth sliding zippers which have performed effectively at -37°F . The self-repairing coils are made of 100% polyester. To connect the tents to the MODULES, we have selected a 156" #5 Vislon separating zipper. Vislon zippers are made of injection molded plastic and have established an impressive, trouble-free performance record over the past three years. When plastic, rather than metal sliders are used, this zipper has operated effectively at -40°F . Both of these zippers are attached

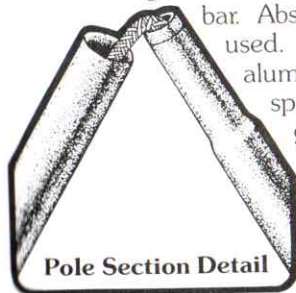
to woven polyester/cotton tapes; the Ziplon is sewn into the tape and the Vislon is pressed into it. Under certain conditions at temperatures below -20°F , frozen cotton fibers in the tape may cause stiffening and buckling. If this hampers zipper operation, run the slider back and forth at the problem point until it slides freely. We have confidence in both the Ziplon and Vislon zippers and guarantee them for the life of the tent.



POLES

Our poles are made for us by Engineering Specialty Products, perhaps the foremost manufacturer of sophisticated tent poles in the mountaineering industry. Each pole is made of drawn seamless tubular aluminum with a tensile strength of approximately 40,000 P.S.I. All end fittings are screw machined from solid aluminum

bar. Absolutely no plastic parts are used. The unique top fitting is an aluminum ogive held in place by a spring-loaded steel pin; this original design by Engineering Specialty Products is by far the most efficient and durable peak connection we have seen. Each pole assembly is made of three sections



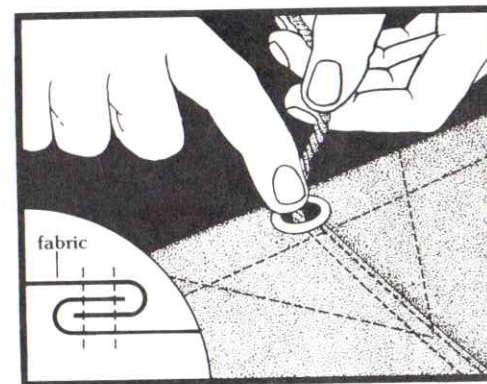
Pole Section Detail

which are shock cord loaded to eliminate the possibility of lost parts and to insure quick assembly and proper sequential arrangement. The shock cord is held in place by threaded aluminum fittings. We consider these to be the most technically advanced tent poles available anywhere. For that reason, we do not hesitate to guarantee them for the life of the tent.

WORKMANSHIP

In the four years of our existence, we have earned a reputation for sewing excellence equalled by none. By spending nearly twice as much time as our competitors on tent construction, it follows that we are able to put together more complicated and more functional designs as well as take more care in monitoring sewing efficiency. To protect the quality and decrease the chance of careless mistakes, all Snow Lion sewing machine operators involved in tent production are paid high hourly wages—not speed-motivating piece-rates. In addition, an extremely high needle skill is required before a man or woman qualifies for our tent production facility. The fruits of this rigorous attention to quality are seams which are neatly lap folded and double stitched, double layers of reinforced taffeta in all corners and sides where webbing loops are attached, side pull-outs in which two layers of fabric are carefully double stitched, zippers which are double and triple stitched, fabric edges which are neatly finished or seam capped, and unbroken stitch lines of high-strength thread throughout. On top of all this, every Snow Lion tent undergoes four complete inspections during construction. Thus, it is with confidence that we guarantee the workmanship

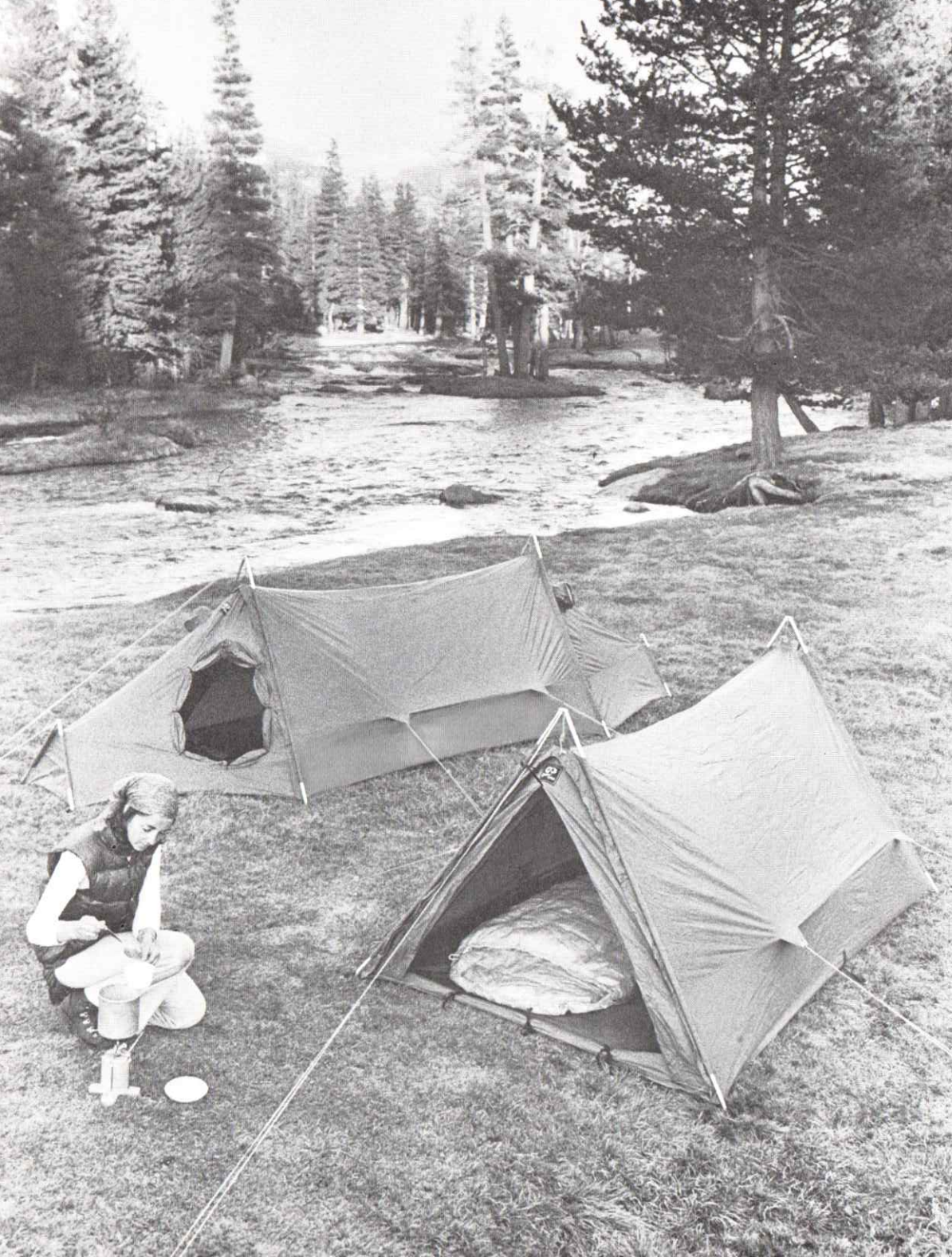
for the life of each tent.



Double
Needle
Stitch

PRODUCT TESTING

Prototype Snow Lion mountaineering tents first appeared in 1973. Since then, countless prototypes have been subjected to the kind of constant and merciless testing that few tents ever experience. The bulk of our staff experiments have been conducted on California's 14,000' Mt. Shasta, where high winds and snow storms are frequent. Our chief concern has been the durability of materials and the livability of design. The results of these high altitude studies have been responsible for the evolution of our present day TRIPLEX and MOUNTAIN TENTS. Even now, while these two tents, with their technical advances and their modular variations, are being used successfully on alpine ascents around the world, we are continuing to consider new ideas and test new designs for the tents of tomorrow.



Triplex



The TRIPLEX advances the state of the art in the manufacture of sophisticated tents to the limits of designing technology: complete seasonal flexibility based on the expansion-module concept. The TRIPLEX system begins with the basic tent and can be variably enlarged by attaching one or two SNOW MODULES.

The basic TRIPLEX is the most practical four season tent on the mountaineering scene. Its performance characteristics are outstanding; it is built to withstand high winds, to survive the

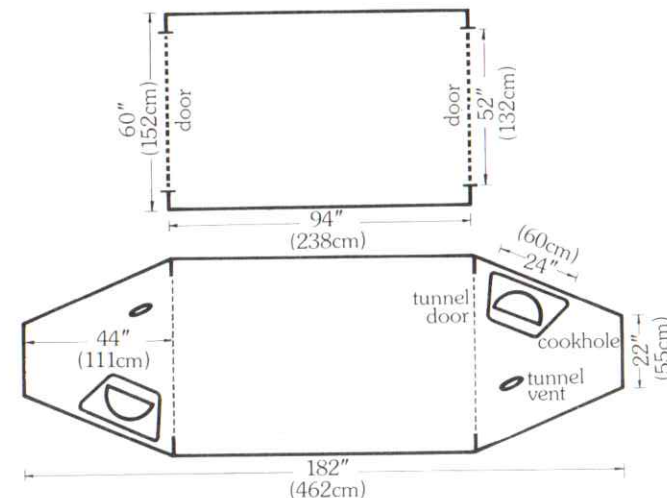
stresses of heavy snowfall, and to provide an uncommon degree of space and livability under conditions of prolonged confinement. Although designed to accommodate two persons in comfort, the TRIPLEX easily sleeps three when necessary. Its rectangular dimensions, 94" x 60", yield an extremely generous 39.16 sq. ft. of floor space. When the side pullouts are taut, the lower walls become vertical, creating an additional volume of useful space. The curved *Arc Effect* allows for ample head movement, thus making unpleasant encounters with the tent ceiling a thing of the past. And this extra room is achieved without compromising stability. An extremely high degree of wind stability is achieved through the proven resilience of its double A-Frame construction, the superior air flow characteristics of its overhead *Arc Effect*, its catenary-cut patterns, and its equal-tension side pullouts. In still another departure from traditional tent design, the basic TRIPLEX is equipped with identical zippered entrances at each end. Both entrances have two triangle-shaped zippered storm and insect doors. The former is made of 2.5 oz. Super K-Kote nylon taffeta and the latter of 1.1 oz. nylon knit. Both feature #7 Ziplon coil zippers. This identical door system means that for the first time, two *easily useable*, quick access entrances are available in a mountaineering tent for year-round use instead of one. It is our view that the less convenient tunnel doors should be restricted to winter use. If extended winter activity is planned or more interior room is desired, our

revolutionary optional SNOW MODULE may be zipped onto either door. Any TRIPLEX MODULE will join to any basic TRIPLEX TENT via a 156" separating #5 Vislon zipper with weather flaps. The trapezoid-shaped MODULE adds 3 $\frac{2}{3}$ ft. to the length of the tent and features a tunnel door, overhead tunnel vent, and a zippered cookhole. When attached, the storm and insect doors of the basic tent may be unzipped, folded, and tied down, making the MODULE an integral part of the tent. Although the basic TRIPLEX is larger than most tents with vestibules, the TRIPLEX plus MODULE is an all-weather survival shelter large enough to accommodate a two-person expedition with gear. If extended sub-zero use is anticipated, an optional FROSTLINER is available. For further expansion, two MODULES may be zipped onto the basic tent, one at each end, forming an incredible 15 ft. long, four-person tent. This modular expansion capability makes the TRIPLEX the most versatile mountaineering tent available in scheduled production anywhere.

Other features include two inside storage pouches, storm flaps to protect the entrance zippers, our unique fitted rain fly, snaps for attaching the optional FROSTLINER, and stress reinforcement procedures which are meant to last the life of the tent. Add these to the innovative construction methods mentioned above and the result is a durable, super-functional shelter. We invite comparison.

SPECIFICATIONS

Tent Weight: 3 lbs. 10 oz.
Fly Weight: 1 lb. 9 oz.
Pole Weight: 1 lb. 8 oz.
Total Weight: 6 lbs. 14 oz.
(Includes Fly, Poles, and Pegs)
End Height: 45"
Center Height: 40"



TRIPLEX

(Includes Fly, Poles, Pegs, and Stuff Sack)

\$144.00

SNOW MODULE

(1 lb. 14 oz.)

\$35.00

FROSTLINER

(1 lb. 4 oz.)

\$25.00



Mountain Tent



The Snow Lion MOUNTAIN TENT offers the ultimate combination of wind stability, room-to-weight efficiency, detailed workmanship, and functional versatility among tents under 6 lbs. total weight. It is a tough, wind-tight two-person tent, intended for the serious backpacker as well as the weight-conscious mountaineer.

Like the TRIPLEX, the MOUNTAIN TENT features our A-Frame pole configuration at both ends. However, because it is a single entrance tent, the canopy is symmetrically tapered for

economy of weight and air flow conductivity. The height is 44" at the front, 36" at the rear. The floor dimensions are 90" x 55". For a low profile tent, the MOUNTAIN's exceptionally spacious 34.37 sq. ft. is considerably larger than the average two-person high altitude tent. There's plenty of room for two plus gear. When the side pullouts are extended, the lower walls become vertical, creating additional space. Even more useful space is created by the curved *Arc Effect*, which allows unrestricted head movement near the front of the tent. Keeping this roomy tent in one piece is an extremely efficient stability system: a combination of wind-sturdy A-Frame pole construction, the superior air flow characteristics of the *Arc Effect*, precise catenary-cut patterns, and equal-tension side pullouts. The result is a taut and wrinkle-free tent with minimal interior air circulation. In fact, with the low end facing directly into the gale, the MOUNTAIN TENT has performed effectively in 110 MPH winds on California's Mt. Shasta.

Getting in and out of the tent is easy. The entrance is a zippered triangular storm door backed by an insect screen of the same shape. The outer door is made of 2.5 oz. Super K-Kote nylon taffeta and the insect mesh is a special 1.1 oz. nylon knit with bounce-back, multi-stretch properties. Both doors feature #7 Ziplon coil zippers. The three-sectional, tubular aluminum poles are shock-corded and slip into long nylon sleeves; they fit into ogive connections at the peak and grommets

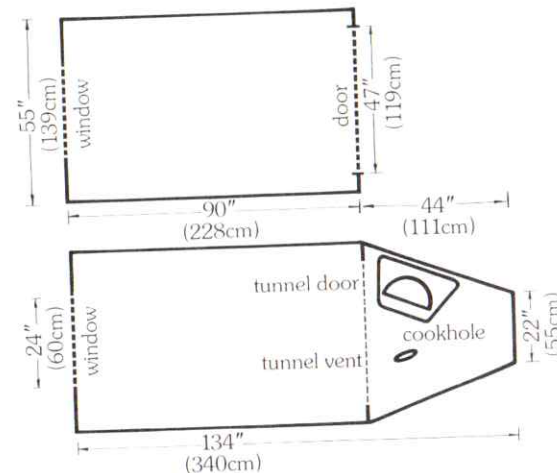
at the lower outside corners. At the rear of the tent, a triangular window with a nylon insect screen and zippered storm flap is neatly double stitched into the back panel.

If more room is desired or extended winter mountaineering, ski-touring, and/or snow camping is planned, our optional SNOW MODULE may be zipped onto the entrance. The MODULE is joined to the tent by a 142" separating #5 Vislon zipper with coated weather flaps. The trapezoid-shaped MODULE adds 3 $\frac{2}{3}$ ft. to the length of the tent, making the expanded version 11.16 ft. long. The MODULE features a tunnel entrance, tunnel vent, and zippered cookhole. When attached, the storm and insect doors may be unzipped, folded, and tied down to make the MODULE an integral part of the tent. If multiple tent use is desired, the tunnel is equipped with "loop attachments" which will connect to any MOUNTAIN or TRIPLEX MODULE tunnel.

Other features include an inside storage pouch, our unique, fitted rain fly, snaps for attaching an optional FROSTLINER, and stress reinforcement procedures which are meant to last the life of the tent. These features, in addition to those mentioned above, make this tent as durable and convenient as it is easy to set up. It is, without question, one of the finest mountaineering tents in the world. We consider it a major achievement to offer the MOUNTAIN TENT at the price indicated.

SPECIFICATIONS

Tent Weight: 2 lbs. 12 oz.
Fly Weight: 1 lb. 4 oz.
Pole Weight: 1 lb. 5 oz.
Total Weight: 5 lbs. 6 oz.
(Includes Fly, Poles, and Pegs)
Front Height: 44"
Rear Height: 36"



MOUNTAIN TENT

(Includes Fly, Poles, and Stuff Sack)

\$118.00

SNOW MODULE

(1 lb. 12 oz.)

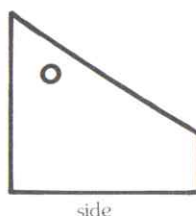
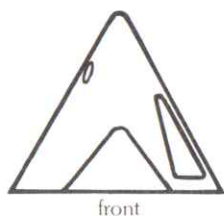
\$35.00

FROSTLINER

(1 lb. 2 oz.)

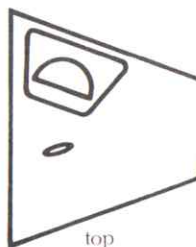
\$20.00

Snow Module



SNOW MODULE
for Triplex
(1 lb. 14 oz.)
\$35.00

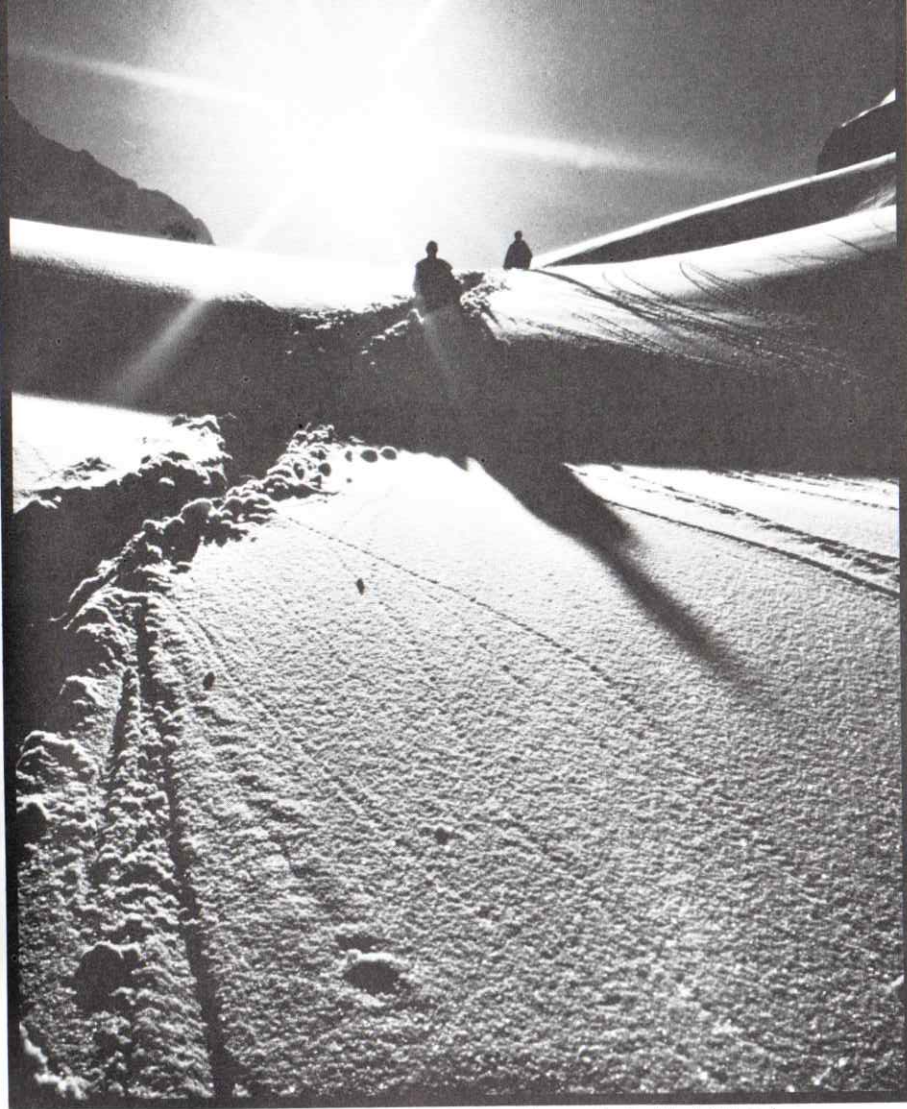
SNOW MODULE
for Mountain Tent
(1 lb. 12 oz.)
\$35.00



Our optional SNOW MODULE is a self-contained chamber which may be zipped onto the entrance of a Snow Lion tent to form an integral extension with a tunnel door, cookhole and tunnel vent. The MODULE transforms the basic tent into a practical and highly versatile shelter system: it can be used on summer trips when added space is desired; it is a tremendous convenience for extended winter use; it is completely detachable, making it easier to distribute carrying weight among individuals. The MODULE is extremely easy to attach and set up; only two additional pegs are required. When attached, the MODULE forms a 44" long trapezoidal compartment with waterproof taffeta floors and

sidewalls and a breathable ripstop top. The breathable portion is designed so that the regular tent fly protects it from snow or rain. Once the MODULE is attached, the storm and mesh doors to the basic tent may be unzipped, folded, and tied down. The MODULE's 24" tunnel entrance is equipped with a unique, drawcord slider system which greatly improves on the conventional tie down method of opening and closing tunnel doors. Simply pull the cords, which are placed in eight nylon sleeves sewn the length of the tunnel, and the tunnel is locked open. In addition, fixed loop attach-

ments are permanently sewn into the tunnel walls to facilitate joining two tents tunnel to tunnel. Full use of the MODULE's 44" length is achieved by the construction of an A-Frame pole arrangement at the small end of the compartment. This not only increases the functional space, but increases the overall stability of the tent-module system. Other features include an adjustable tunnel vent with a mesh screen and a crescent-shaped, zippered cookhole. Each Snow Lion tent is equipped with the zipper facing to accept the appropriate MODULE. Stuff sack included.



Ascending Last Chance Crag in St. Elias Range, Alaska (Ned Gillette)

Product Testing

Product testing under a wide variety of conditions is a vital part of our research and development program. In addition to continuous testing in the Sierra Nevada, we have instituted a series of high altitude performance evaluations on expeditions world wide. It is our conviction that equipment use by experienced individuals in isolated and limited access areas under extreme and variable conditions provides the most significant index of product performance. It is the refinements and design improvements gained by these evaluations which make product testing an essential part of our efforts to perfect the sleeping bags, parkas, and tents which we manufacture.

Expedition and Product Testing

Expeditions 1975-1976

1975 Thin Air Expedition, Winter Attempt on Mt. Foraker
 1975 American Karakorum/Lobsang Expedition
 1975 Foraker South Face Expedition
 1975 Baffin Island Expedition
 1975 Saint Elias Traverse Expedition
 1975 Kitchatna Spires Expedition
 1975 Back River Expedition
 1975 Alpamayo Expedition
 1975 Silverthrone Tri-Pyramid Traverse Expedition
 1975 Cathedral Spires (Alaska) Expedition
 1975 St. Elias West Face Expedition
 1975/76 American Torre Egger Expedition
 1975/76 Canadian-British Patagonian Expedition
 1976 Denali Winter Expedition
 1976 Franco-American Expedition to Mt. Foraker
 1976 Lenin Peak Pamirs Expedition
 1976 Expedition to Aconcagua—Polish Route
 1976 Mt. Foraker-Mt. Russell Expedition
 1976 Juneau Ice-Fields Expedition
 1976 Anglo-Canadian McKinley Expedition
 1976 Mt. Blackburn Expedition
 1976 Cathedral Spires (Alaska) Expedition
 1976 Mt. McKinley Hang Gliding Expedition
 1976 Mt. Logan High Altitude Physiology Study Expedition

Excerpts from Expedition Letters to Snow Lion

Sandy Mapes
Silver Throne Tri-Pyramid
Traverse Expedition, 1975

"The down-Polarguard combination (LIMITED EDITION and OVERBAG) is fantastic. Sublimation is the ticket here; it works... The wicking action of moisture from the internal shell was so good that I also put my damp wool pants underfoot, sweater on top, inner boots and gloves and hats along the sides—all between the two bags. The result left me an extremely comfortable sleeping compartment."

Michael Graber
1975 Kitchatna Spires Expedition

"As far as the equipment was concerned, we couldn't have climbed what we did without the Polarguard. On each climb we were wet, yet we stayed warm... At one point we would have died had it not been for the Polarguard. No joke, it was that close."

Craig Patterson
1975 Saint Elias Traverse Expedition

"I had been on two other mountaineering expeditions, during both of which my bags started getting chilly after a couple of weeks in winter conditions. This four week St. Elias expedition, with your double bag combination, was the first in which I was warm every night. Never even came close to being cold."

Dave Harrison
Back River Expedition, 1975

"The (Polarguard) bags were used to save two lives when two of our party overturned in the rapids, and after prolonged exposure to 48 degree water had to be put into sleeping bags to bring their temperatures back up."

Gary Bocarde
1975 Cathedral Spires (Alaska) Expedition

"The Polarguard EXPEDITION OVERPARKA was really fantastic, it is so good, that it could be used with a half bag for Big Wall climbing in Alaska in the summer."

Michael Covington
1975 American Karakorum/Lobsang Expedition

"Due to an extensive series of circumstances, my wool pants and Snow Lion Polarguard bag were left at another camp and when a decision to attempt an alpine ascent at 20,400' Lobsang Peak had been reached, I was left with a pair of shorts, wind pants, and my Polarguard parka and pants to sleep in." By 2 a.m. the morning after reaching the summit, "the Karakorum had become enveloped in a raging blizzard... Despite my lack of sufficient undergarments, my Polarguard parka and pants allowed me to sleep warm and comfortably the entire night."

Steve Ross
1976 Denali Winter Expedition

"We encountered day time temperatures that seldom went to zero and a low night time temperature of -45°F. Many nights we had a lot of spindrift in the tents covering the bags—a couple of times it was a foot deep. Between cooking, spindrift and crawling into the bags with snowy and icy clothes, the bags got a real workout... We were pleased with the Polarguard bags (MOUNTAIN LION SUPERS) for warmth and can heartily recommend them."

George Homer
Canadian-British Patagonian Expedition,
1975-76

"Your gear proved to be excellent. We found it to be much superior to down gear as it was frequently damp or wet due to the exceptionally inclement weather we experienced. Polarguard is obviously where it's at!"

John Bragg
1975-76, American Torre Egger Expedition

"The Snow Lion gear was *great*. We used the MOUNTAIN LION SUPERS in snow-caves and stayed warm and dry despite the dampness and continued dripping. The upper part of the route was so cold that we ended up belaying, and even sometimes jumaring and climbing in the EXPEDITION OVERPARKAS. They were really good up there."



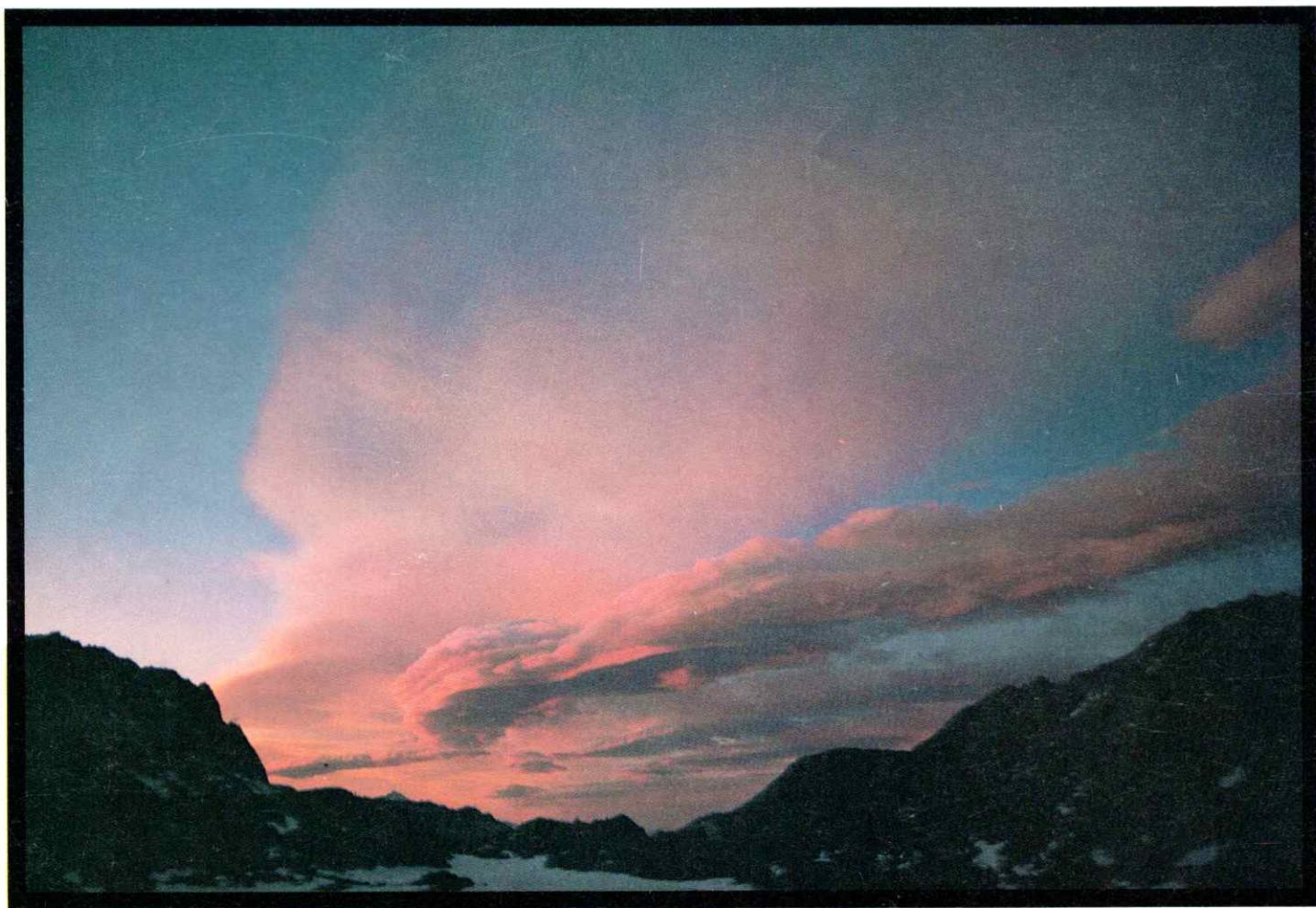
LIFETIME GUARANTEE

Every Snow Lion product is guaranteed against defects in materials and workmanship for as long as it is used by the original purchaser. Claims will be processed directly through Snow Lion; there is no need to contact the dealer from whom the product was purchased.

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Berkeley, CA. 94701

Bulk Rate
Permit
No. 1143
Berkeley, CA.

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Sunset near Bishop Pass (Galen Rowell)